Advanced Nuclear Directory

Developers, Suppliers and National Laboratories

GAIN Gateway for Accelerated Innovation in Nuclear

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TABLE OF CONTENTS

TABLE OF CONTENTS

DEVELOPERS (Cont.)

SUPPLIERS

TABLE OF CONTENTS

SUPPLIERS (Cont.)

TABLE OF CONTENTS

SUPPLIERS (Cont.)

NATIONAL LABORATORIES

RESOURCES

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INTRODUCTION

The Advanced Nuclear Directory offers a sample of companies engaged in the development of advanced nuclear technologies and should not be considered a comprehensive list of this industry. All companies featured have participated on a voluntary basis and are responsible for the information provided. Inclusion of a company does not indicate endorsement by any of the directory's sponsors.

ACKNOWLEDGMENT

The Advanced Nuclear Directory was created in partnership between Gateway for Accelerated Innovation in Nuclear (GAIN), Third Way, and the United States Nuclear Infrastructure Council (USNIC).

*GAIN reserves the right to edit content for publishing purposes.

GATEWAY FOR ACCELERATED INNOVATION IN NUCLEAR

GAIN Gateway for Accelerated Innovation in Nuclear

The mission of the GAIN initiative is to provide the nuclear energy industry with access to the technical, regulatory, and financial support necessary to move advanced nuclear technologies toward commercialization, while ensuring the continued reliable and economic operation of the existing nuclear reactor fleet. GAIN offers a single point of access to the broad range of capabilities across the Department of Energy (DOE) national laboratory complex. DOE has invested billions of dollars to build and maintain its nuclear research expertise and infrastructure. This vast capability is being leveraged via GAIN to support commercialization of new advanced nuclear technologies.

Location: Idaho Falls, ID
Founded: 2015
Director: Christine King
Federal Engagement: DOE-NE, NRC, NSUF, NEUP, LWRS, NEAMS, ART
Preferred Point of Contact: Christine King | christine.king@inl.gov | 650-283-4235

gain.inl.gov

FAST REACTORS INFO SHEET

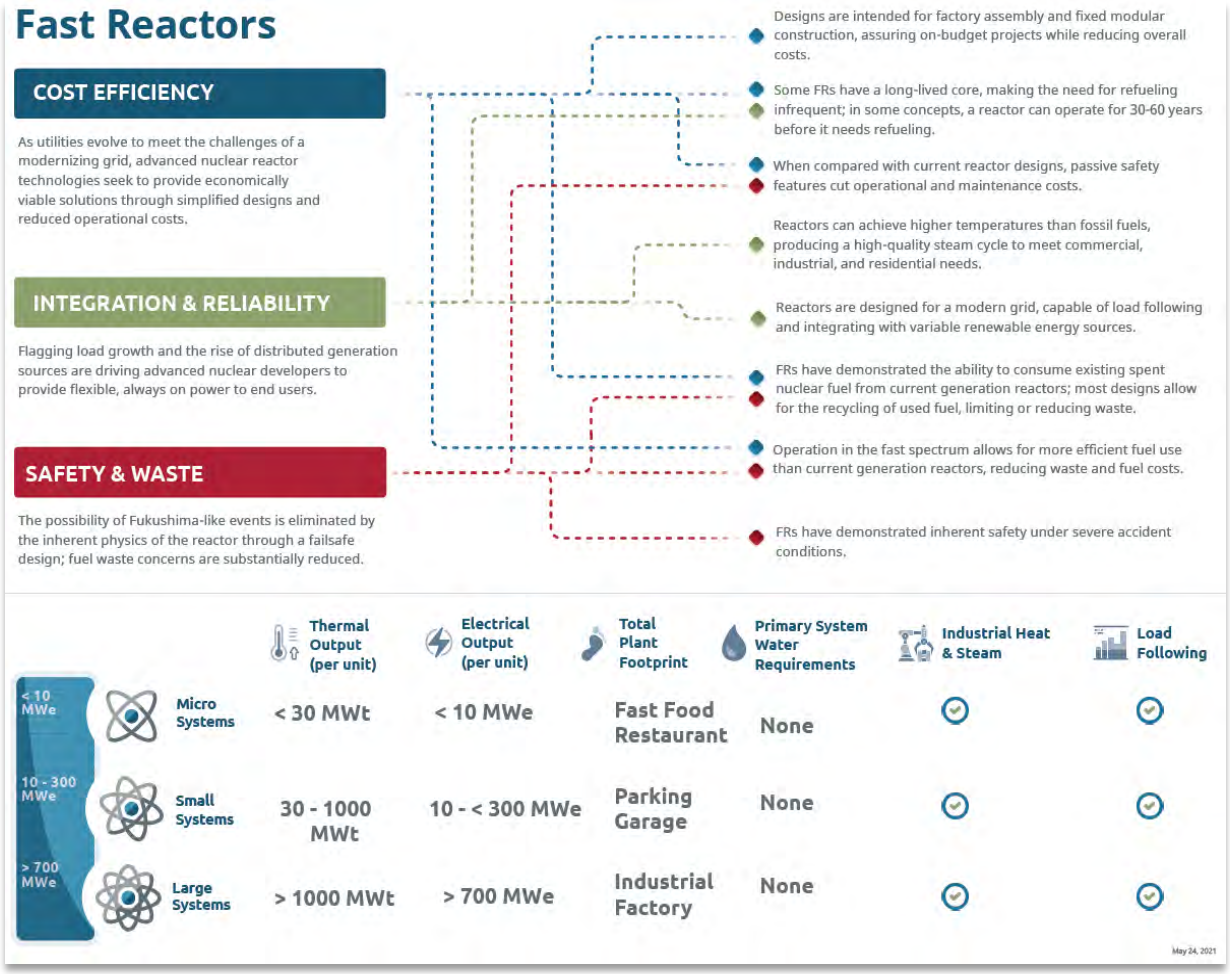
INTRODUCTION

DOE-NE has established the Gateway for Accelerated Innovation in Nuclear (GAIN) to provide the nuclear community with access to the technical regulatory and financial support necessary to move innovative nuclear energy technologies toward commercialization while ensuring the continued safe reliable, and economic operation of the existing nuclear fleet.

Developing safe, reliable sources of carbon-free energy will be the next decade's greatest challenge for US power producers. Several US-based companies are developing Fast Reactors (FRs), a type of advanced nuclear reactor to help meet that energy challenge.

Without a moderator nuclear reactions occur at high energies, producing more efficient fission reactions. Developers of this reactor type offer increased safety, reduced proliferation risk, improved management of nuclear waste, and industrial applications, all at a lower cost than traditional reactors. In some designs the reactor can recycle waste from other reactors, or produce additional fuel.

Four types of FRs are being developed by US companies: the Sodium-Cooled Fast Reactor (SFR), Lead-Cooled Fast Reactor (LFR), Gas-Cooled Fast Reactor (GFR), and Molten Salt Fast Reactors (MSFR).



Inherently Safe by Design

By operating in the fast spectrum with a liquid metal coolant, FRs are able to provide both high power density and passively safe operation. FRs rely on "fast neutrons" to cause fission, and can be designed without a moderator (e.g., water) in the reactor core. A liquid metal coolant allows for efficient heat transfer at low pressure, promoting natural circulation and passive decay heat removal. In the event of a rise in temperature, the physics of the reactor provides reactivity feedback that inherently reduces the reactor's power. This inherent safety behavior prevents severe accidents, as demonstrated by Experimental Breeder Reactor-II (Image 1). FRs using gas and salts can achieve similar inherent safety performance by passively removing heat, and incorporating self-stabilizing reactivity feedbacks.

Fuel Cycle Features

Experimental Breeder Reactor-II (EBR II) at the National Reactor Testing Station in Idaho

The unique properties of FRs enable efficient fuel utilization and waste minimization. FRs can operate with a favorable neutron balance; fission reactions in FRs are capable of creating more neutrons than consumed. By converting these excess neutrons into usable fuel materials, some FRs are designed to produce more fuel. FRs are also flexible to accept a wide range of fuel materials, with many designs capable of recycling existing nuclear waste in a closed fuel cycle. The efficient fuel utilization of FRs can also enable some designs to operate for decades without refueling. FRs offer fuel cycle flexibility, providing a robust fuel supply and improved nuclear waste management.

Load Following and Integration

By deploying FRs in an energy mix, power producers are able to provide reliable electricity to customers while integrating with other generation technologies, such as variable renewable energy resources. Flexible load following capabilities allow a reactor to adjust to demand and intermittent supply. In times when less power is needed, fast reactors have a ramp-down rate of less than 15 minutes. When the demand for energy increases, it can be ramped up to full power within minutes.

Additional Fast Reactor Resources:

bit.ly/IAEA-FastReactor-Reference

bit.ly/GAIN-FastReactor

bit.ly/ANL-EBR2-History

HIGH TEMPERATURE REACTORS INFO SHEET

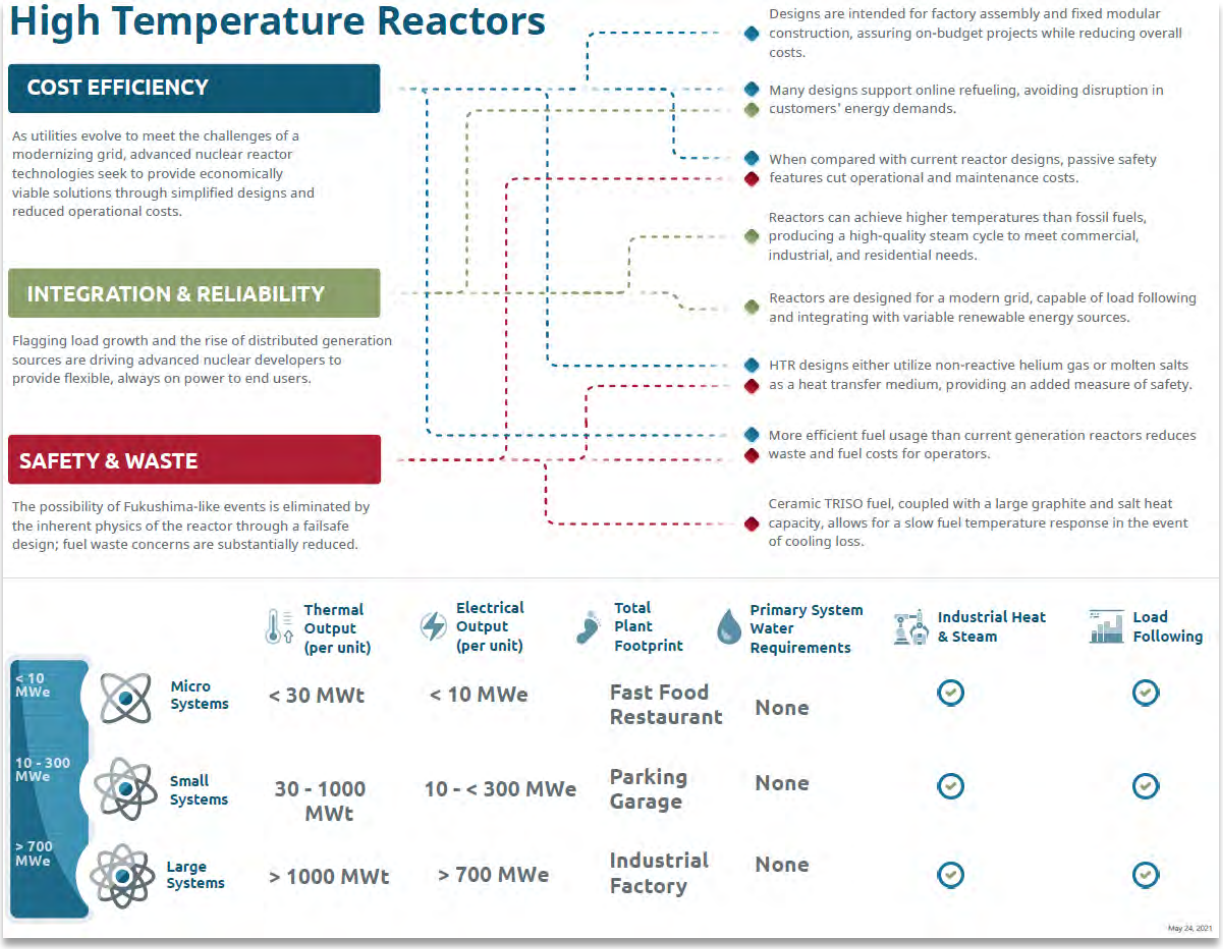
INTRODUCTION

DOE-NE has established the Gateway for Accelerated Innovation in Nuclear (GAIN) to provide the nuclear community with access to the technical, regulatory, and financial support necessary to move innovative nuclear energy technologies toward commercialization while ensuring the continued safe, reliable, and economic operation of the existing nuclear fleet.

Developing safe, reliable sources of carbon-free energy will be the next decade's greatest challenge for US power producers. Several US-based companies are developing High Temperature Reactors (HTRs), a type of advanced nuclear reactor, to help meet that energy challenge.

HTRs are a type of graphite-moderated thermal reactor employing TRISO fuels (see below), differentiating them from other advanced reactor concepts. HTRs use either inert gas or molten salt as a heat transfer medium. Developers of this reactor type offer increased safety, remote power, and industrial applications.

HTRs typically use low enriched uranium fuel to produce higher reactor outlet temperatures than other reactors. For this reason, developers of HTRs offer it as a viable replacement to industrial fossil fuel processes.



Quality Process Heat for Industrial Applications

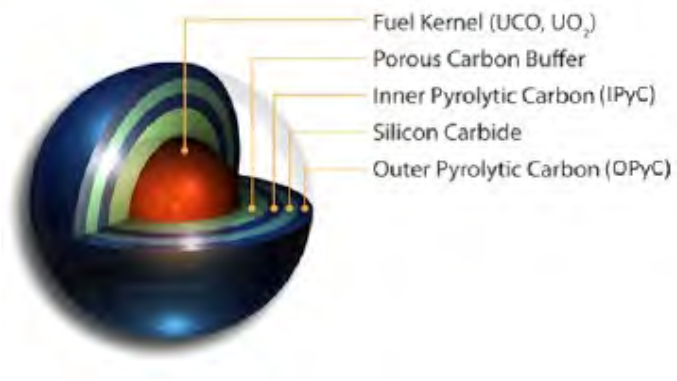
All HTR systems have the ability to reach higher and more precise temperatures than those that use fossil fuels. HTRs' ability to consistently produce clean, quality heat is especially important in industrial chemical processes, where a plant must maintain a set range of temperatures for successful production. HTRs, therefore, can reduce the margin of error for operators, resulting in greater cost efficiencies.

Inherent Safety that Starts at the Fuel Source

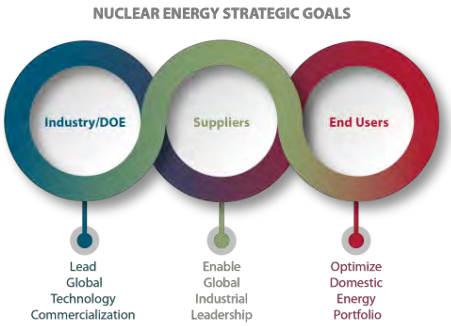
HTRs are built around safety, beginning with advances in nuclear fuel technology. All HTRs use “tri-structural isotropic” fuels, commonly referred to as TRISO fuels (Image 1). TRISO fuel comes in different shapes and sizes; no matter the form, this advanced fuel source contains a small amount of low-enriched uranium fuel within three layers of protective graphite and silicon carbide. These TRISO particles are incorporated into a graphite matrix within spheres ("pebbles") the size of a golf ball or a tennis ball, or into blocks ("compacts"). The coatings around the TRISO particles fully contain fission products resulting from the nuclear reaction, eliminating the need for costly, concrete containment structures.

Load Following and Integration

By deploying HTRs in an energy mix, power producers are able to provide reliable electricity to customers while integrating with other generation technologies, such as variable renewable energy resources. Flexible, load following capabilities of HTRs enable integration with intermittent renewable energy sources; moreover, the high-grade heat produced by HTRs make thermal energy storage or integration with industrial processes possible and attractive during low electricity demand intervals.



A tri-structural isotropic or “TRISO” fuel particle



Additional High Temperature Reactor Resources:

bit.ly/INL-ART-GCR

bit.ly/NRC-Training-Course-HTR

bit.ly/IAEA-ARIS-Database

MOLTEN SALT REACTORS INFO SHEET

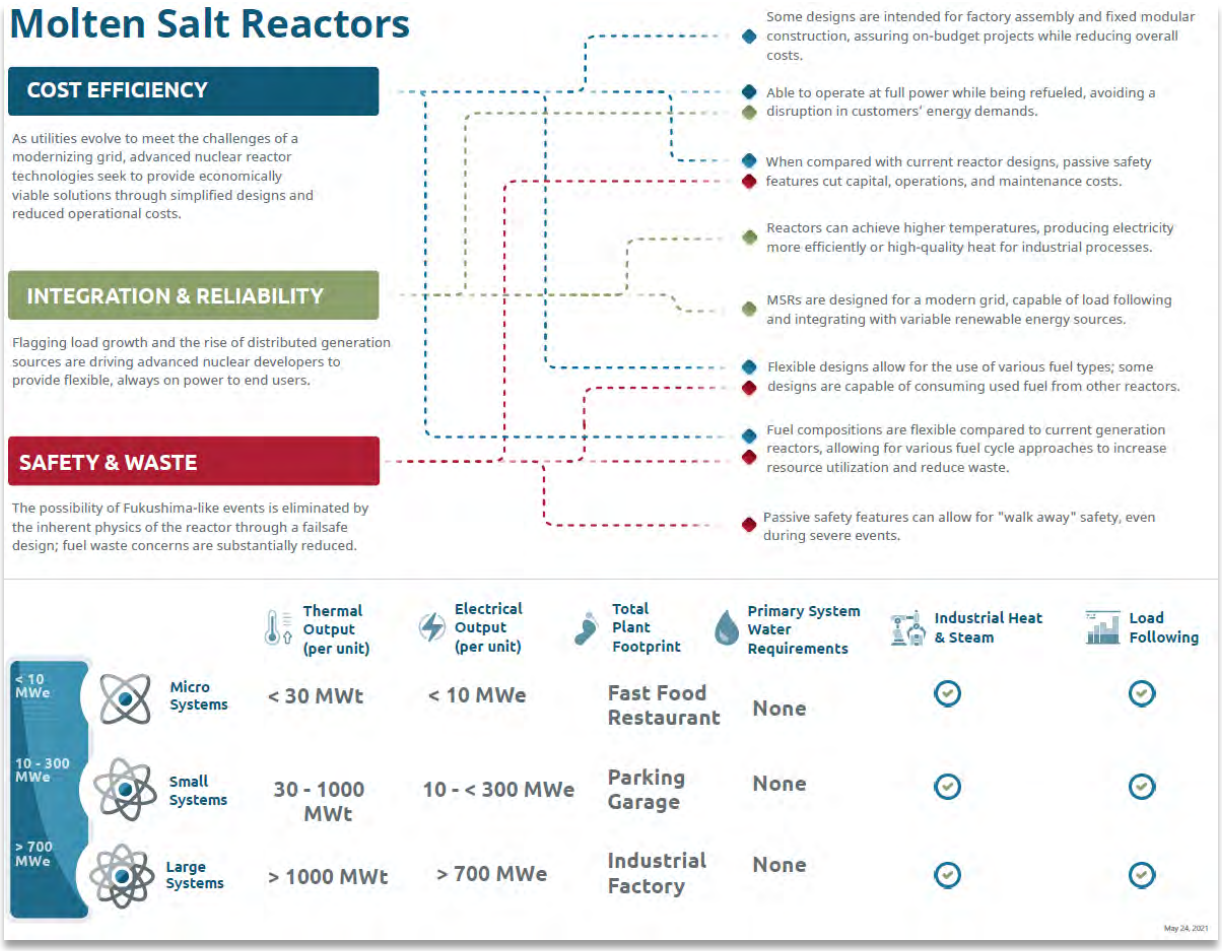
INTRODUCTION

DOE-NE has established the Gateway for Accelerated Innovation in Nuclear (GAIN) to provide the nuclear community with access to the technical, regulatory, and financial support necessary to move innovative nuclear energy technologies toward commercialization while ensuring the continued safe, reliable, and economic operation of the existing nuclear fleet.

Developing safe, reliable sources of carbon-free energy will be the next decade's greatest challenge for power producers in the US. Several US-based companies are developing Molten Salt Reactors (MSRs), a type of advanced nuclear reactor, to help meet that energy challenge.

MSRs utilize low pressure, high temperature fluoride or chloride salts as liquid fuels and coolants. MSRs are different from most other advanced reactor concepts because of their ability to operate in a low pressure environment, as well as at higher temperatures and for longer durations than other reactor types. Developers of this reactor offer increased safety, reduced proliferation risk, passive safety system features, and short-lived waste.

MSRs could play a significant role in closing the nuclear fuel cycle, increasing fuel utilization, and reducing long-lived waste products.

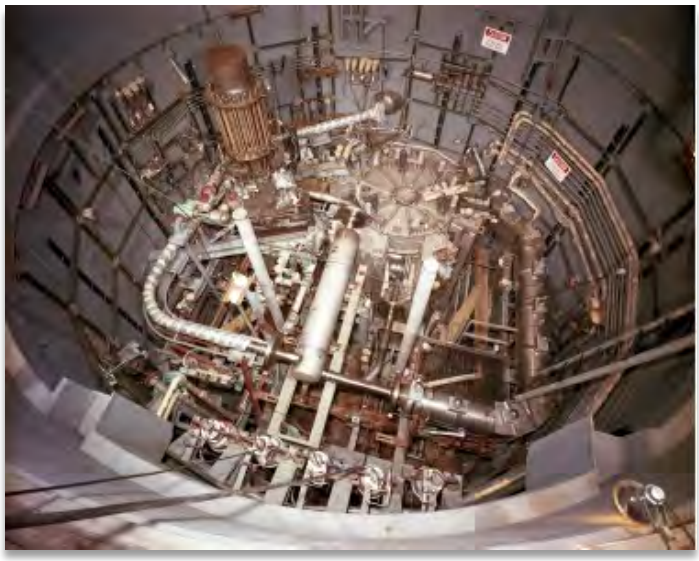


Readily Apparent Safety

Due to the inherent characteristics of low pressure, chemically-inert coolants and liquid fuel systems, MSRs are easily coupled to passive safety systems that eliminate the need for many of the safety systems needed for other reactor types. MSRs can be designed to be “walk away” safe and operate with low pressure components and systems, which improve the economic performance and enhance the safety of the reactor.

High-Quality Energy

MSRs produce high temperature heat for efficient electricity production and for application in high temperature industrial applications, including the production of hydrogen. MSRs are attractive because of their potential to operate at higher, more efficient temperatures for extended operational cycles.



A TOP VIEW OF THE Molten Salt Reactor Experiment (MSRE) at Oak Ridge National Laboratory

Load Following and Integration

By employing MSRs in an energy mix, a power producer is able to provide reliable energy to its customers while integrating with variable resources. Flexible load following capabilities of MSRs enable integration with intermittent renewable energy sources; moreover, the high-grade heat produced by MSRs make thermal energy storage or integration with industrial processes possible and attractive during low electricity demand intervals.

Additional Molten Salt Reactor Resources:

bit.ly/GAIN-MSR

bit.ly/YouTube-MSR

bit.ly/ORNL-MSR

bit.ly/FluidFuelReactors

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DEVELOPERS

AALO ATOMICS

ADVANCED NUCLEAR | DEVELOPER

Aalo is building the first nuclear reactor designed specifically for the data center era. The company's 50 MWe Aalo Pod configuration—comprising five modular 10 MWe sodium-cooled reactors—is optimized for distributed deployment, high uptime, and grid independence. Aalo is focused on rapid iteration, factory-built modular construction, and a regulatory-first approach that ensures speed to market. The company's first reactor, Aalo-X, will begin construction at Idaho National Laboratory in 2026 and go critical in 2027 under a DOE authorization pathway. In parallel, Aalo is pursuing NRC licensing for future commercial deployment.

Unlike others dependent on HALEU, Aalo uses LEU+ UO_2 fuel, available through today's supply chain. Aalo's pilot factory is fully operational, and the full-scale reactor prototype is undergoing sodium testing in Texas. The team includes veterans of the MARVEL reactor project—the first to achieve DOE authorization in over 40 years—and leaders from SpaceX, Google, Microsoft, Westinghouse, and the DOE. Aalo is venture-backed and on track to become the fastest developer in the nuclear sector, with plans to mass manufacture and export gigawatt-scale fleets of modular nuclear systems worldwide.

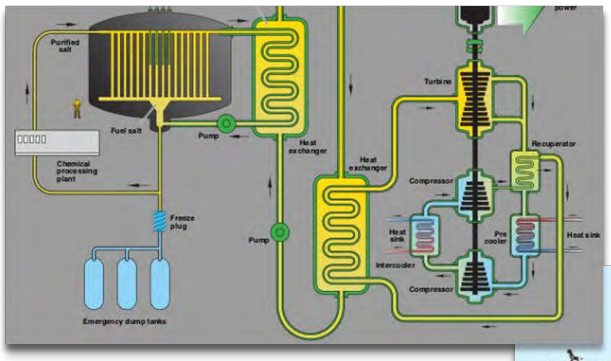
Location: Austin, TX
Founded: 2022
Principal/CEO: Matt Loszak
Major Investors: 50Y, Valor Equity Partners, Harpoon Ventures, Crosscut, SNR, Alumni Ventures, Preston Werner, Earth Venture, Garage Capital, Wayfinder, Jeff Dean, Nucleation Capital, and more
Technology Class: XMR (Extra Modular)
Reactor Type: Sodium Cooled Thermal Reactor
Power Output (MWe/MWT): Aalo-1 Reactor 30 MWth / 10 Mwe, Commercial Product is Aalo-Pod (5 Aalo-1 with common turbine generator) 50 MWe
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Matt Loszak | Matt@aalo.com

https://www.aalo.com/

ALPHA TECH RESEARCH CORP

ADVANCED NUCLEAR | DEVELOPER

Alpha Tech Research Corp is developing thorium fueled Molten Salt Reactor (MSR) technology to enable a new phase in clean, safe power production.



Location: Salt Lake City, UT
Founded: 2016
Principal/CEO: Nick Baguley
Major Investors: Non-disclosed
Technology Class: MSR
Reactor Type: MSTIR
Power Output (MWe/MWT): 30MWt
Federal Engagement: DOE, NRC
Preferred Point of Contact: Staci Wheeler | staci@alphatechresearchcorp.com | 801-477-0715

https://alphatechresearchcorp.com/

ANTARES INDUSTRIES

ADVANCED NUCLEAR | DEVELOPER

ANTARES

Antares is building fission microreactors to enable strategic energy for critical mission capabilities on earth, in space, and underwater.

Location: Torrence, CA
Founded: 2024
Principal/CEO: Jordan Bramble
Major Investors: Non-disclosed
Technology Class: Microreactor
Reactor Type: Heat Pipe Reactor
Power Output (MWe/MWT): 100-500 kWe
Federal Engagement: DOE, GAIN, NRC, DOD
Preferred Point of Contact: Matt Griffin | matt@antaresindustries.com

https://antaresindustries.com/

ARC CLEAN TECHNOLOGY, INC.

ADVANCED NUCLEAR | DEVELOPER

ARC is a clean energy technology company developing the ARC-100, an advanced small modular reactor (aSMR) offering inherently safe, reliable, and economical carbon free power. Leveraging proven technology from the 30-year performance of its prototype, the ARC-100's simple, modular design provides 100 megawatts of electricity and industrial heat that is cost competitive with fossil fuels. Important applications include the decarbonization of heavy industry, the fueling of low-carbon hydrogen projects, and the creation of valuable medical isotopes. The ARC-100 is the recipient of an ARDP (ARC-20) award from the U.S. DOE. It has also been selected by New Brunswick Power for implementation on their Point Lepreau site, with completion targeted for the late 2020s. ARC has offices in Washington, DC. and Saint John, New Brunswick.

Location: Washington, DC
Founded: 2006
Principal/CEO: Donald Wolf
Major Investors: Non-disclosed
Technology Class: Advanced small modular reactor
Reactor Type: Sodium cooled fast reactor
Power Output (MWe/MWT): 100 MWe / 286 MWt
Federal Engagement: DOE, NRC
Preferred Point of Contact: Irfan Ali | iali@arc-cleantech.com

https://arc-cleantech.com/

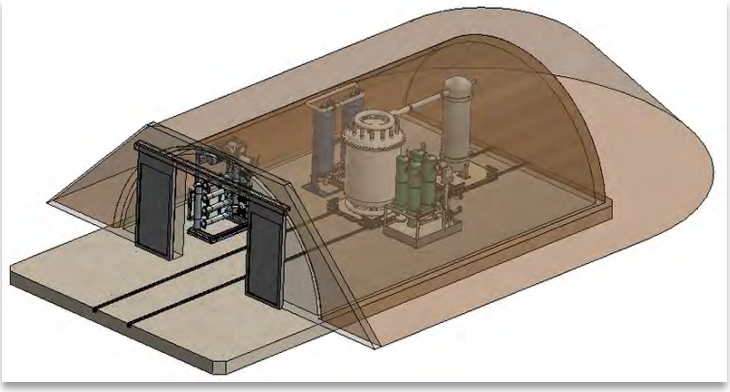
BWX TECHNOLOGIES, INC.

ADVANCED NUCLEAR | DEVELOPER

BWX Technologies, Inc.

BWX Technologies, Inc. (BWXT) provides safe and effective nuclear solutions for national security, clean energy, environmental remediation, nuclear medicine and space exploration. With approximately 6,700 employees, BWXT has 12 major operating sites in the U.S. and Canada. We are the sole manufacturer of naval nuclear reactors for U.S. submarines and aircraft carriers. Our company supplies precision manufactured components, services and fuel for the commercial nuclear power industry across four continents. Our joint ventures provide environmental remediation and nuclear operations management at more than a dozen U.S. Department of Energy and NASA facilities. BWXT's technology is also driving advances in medical radioisotope production in North America and microreactors for various defense and space applications.

Through its entities, BWXT is developing BANR (BWXT Advanced Nuclear Reactor). BANR is a transportable microreactor designed to utilize advanced TRISO particle fuel to achieve higher uranium loading and improved fuel utilization.



Location: Lynchburg, VA
Founded: 1857
Principal/CEO: Rex D. Geveden
Major Investors: BWX Technologies, Inc. is publicly traded on the New York Stock Exchange
Technology Class: High Temperature Gas Reactor
Reactor Type: High Temperature Gas Microreactor
Power Output (MWe/MWT): 17 MWe / 50 MWt
Federal Engagement: DOE, NRC,
Preferred Point of Contact: Joshua L. Parker | jlparker2@bwxt.com | 434-316-7652

https://www.bwxt.com/

COLUMBIA BASIN CONSULTING GROUP

ADVANCED NUCLEAR | DEVELOPER

CBCG is a business management and technical consulting firm which provides services relating to advanced reactor engineering and development.

CBCG PbBi Nuclear Plant Development - Power When You *Need* it to BE-THERE

Location: Kennewick, WA
Founded: 1998
Principal/CEO: William J. Stokes
Major Investors: Self-funded
Technology Class: Liquid metal cooled
Reactor Type: Lead-bismuth and sodium
Power Output (MWe/MWT): 260 MWe / 600 MWt; 100 MWe / 250 MWt
Federal Engagement: DOE, GAIN, Other
Preferred Point of Contact: William J. Stokes | wjstokes@cbcgllc.com | aporter@cbcgllc.com

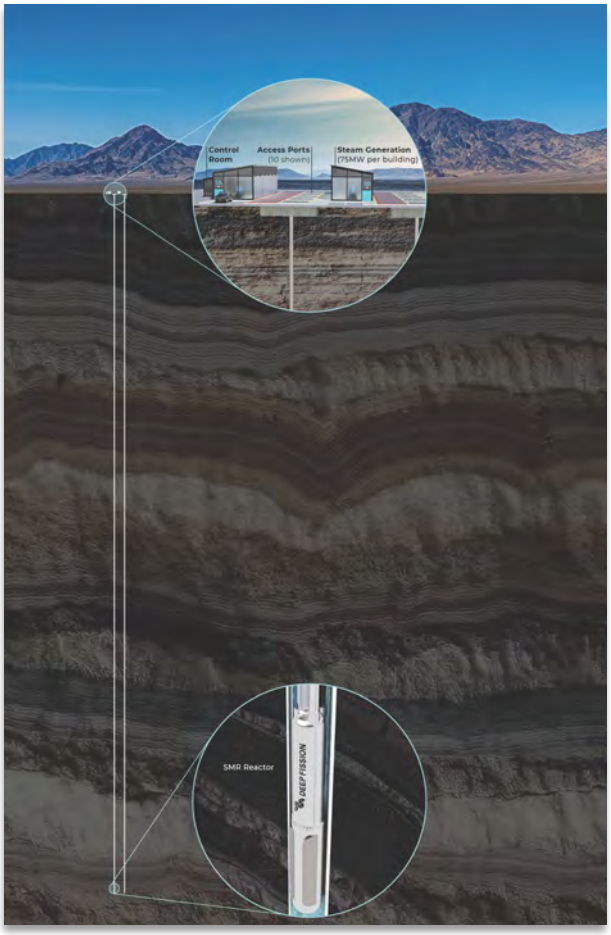
http://www.cbcgllc.com/

DEEP FISSION

ADVANCED NUCLEAR | DEVELOPER

DEEP FISSION

Deep Fission is a pioneering nuclear energy company burying small modular reactors a mile underground using proprietary deep-borehole technology to deliver reliable, 24/7 electricity with minimal surface footprint. By adapting proven oil and gas innovations—like directional drilling, modular completions, and field-scale logistics—Deep Fission eliminates the need for costly, time-consuming construction. This approach cuts capital costs by up to 80%, compresses deployment timelines, and enables profitability from the very first project, unlocking a faster, cheaper, and more scalable path to carbon-free power.



Location: Berkeley, CA
Founded: 2023
Principal/CEO: Liz Muller
Major Investors: 8VC, Endeavour
Technology Class: Advanced Small Modular Reactor
Reactor Type: Pressurized Water Reactor (PWR)
Power Output (MWe/MWT): 15 MWe / 50 MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Jen Stakich | jen.stakich@deepfission.com | 707-400-0778

https://www.deepfission.com

EXODYS ENERGY, INC.

ADVANCED NUCLEAR | DEVELOPER

EXODYS ENERGY believes that nuclear energy innovation will propel humanity past energy poverty and pollution. With over 400,000 tons of nuclear fuel waste, the world has centuries of clean energy security. To unlock this potential, the company is developing two technologies:

- UP-CYCLE: Nuclear waste-to-fuel conversion process
- KLOROS: Advanced Molten Salt Modular Reactor

The concepts are based on the product of a diverse team of U.S. Navy advanced reactor designers and leaders in both civil and military (naval and space) nuclear power programs. UPCYCLE and KLOROS are being engineered to quickly scale up nuclear energy by improving safety and security margins, with the lowest environmental footprint.

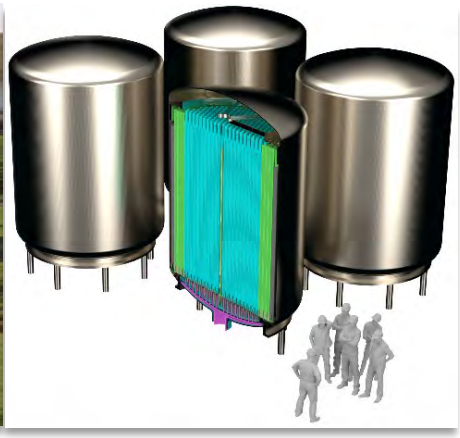
Location: New York, NY
Founded: 2022
Principal/CEO: Carl Perez
Major Investors: Non-Disclosed
Technology Class: Advanced Modular Reactor
Reactor Type: Molten Salt Reactor: Fast-spectrum, Chloride Salt
Power Output (MWe/MWT): 500-3000 MWt / 200-1200 MWe
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Carl Perez | cperez@exodysenergy.com | 646-706-3698

https://www.exodysenergy.com/

FLIBE ENERGY, INC.

ADVANCED NUCLEAR | DEVELOPER

Founded in 2011 in Huntsville, Alabama, Flibe Energy, Inc. (FEI) was the world's first molten-salt reactor company. FEI is developing the Lithium Fluoride Thorium Reactor (LFTR) and associated technologies, building on the Molten Salt Reactor Program that operated at Oak Ridge National Laboratory from 1957-1976. Through use of on-site chemical processing, LFTR consumes all of its thorium fuel, keeps long-lived isotopes out of the waste stream, and only requires management of a small quantity of short-lived waste in low-cost near-surface regional repositories. Furthermore, utilization of a supercritical CO2 power conversion system reduces turbomachinery size and complexity, enables tritium capture, and makes dry cooling possible. LFTR has a low-risk supply chain due to a lack of mining, enrichment, solid fuel fabrication, long-lived waste, as well as through use of domestic suppliers for major materials and components. With growing populations and increasing electrification, LFTR provides a path to sustainable energy.



Location: Huntsville, AL and Richland, WA
Founded: 2011
Principal/CEO: Kirk Sorensen
Major Investors: Private
Technology Class: Molten salt reactor
Reactor Type: Liquid fuel/coolant, fluoride salts, thermal spectrum, graphite moderator, thorium/U-233 fuel cycle
Power Output (MWe/MWT): 250 MWe / 600 MWt
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Kurt Harris | kurt.harris@flibe-energy.com

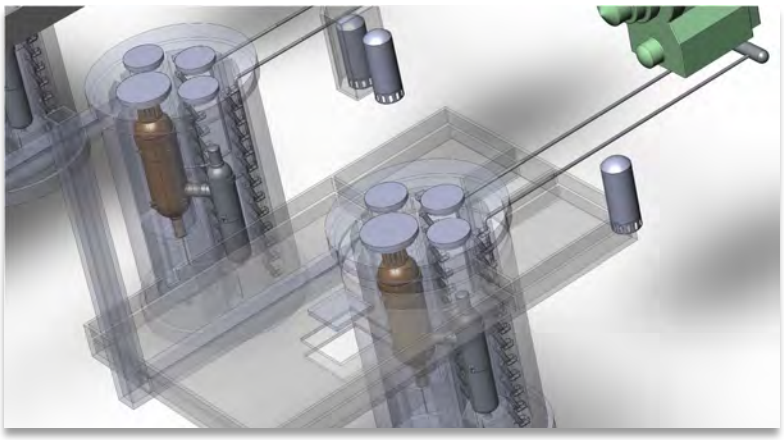
https://flibe.com/

FRAMATOME, INC.

ADVANCED NUCLEAR | DEVELOPER

Framatome is a major international player in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures, and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services.

Framatome is developing the Steam Cycle HTGR Generation IV advanced reactor concept. Its scalable design provides options for a variety of customer needs for high-temperature steam and electricity. Its unparalleled safety profile allows co-location with customer facilities. True walk-away safety and restart capability following a design-basis accident make the SC-HTGR a low investment risk for plant owners and operators.



Location: Lynchburg, VA
Founded: 1989
Principal/CEO: Gary Mignogna
Major Investors: Non-disclosed
Technology Class: High temperature gas cooled
Reactor Type: Steam cycle high temperature gas cooled reactor
Power Output (MWe/MWT): 22-272 MWe / 50-625 MWt
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Darryl Gordon | Darryl.gordon@framatome.com | 434-832-5199

https://www.framatome.com/en/

ADVANCED NUCLEAR | DEVELOPER

GE HITACHI NUCLEAR ENERGY

BWRX-300 Small Modular Reactor (SMR) - GE Hitachi Nuclear Energy (GEH) is a world leader in new plant technology, fuel and services. GEH's BWRX-300 is a 300 MWe water-cooled, natural circulation small modular reactor with passive safety systems that leverages the design and licensing basis of the company's U.S. NRC-certified ESBWR. Through dramatic and innovative design simplification, GEH projects the BWRX-300 will require significantly less capital cost per MW when compared to other SMR designs. By leveraging the ESBWR design certification, utilizing the licensed and proven GNF2 fuel design, and incorporating proven components and supply chain expertise the BWRX-300 can, GEH believes, become the lowest-risk, most cost-competitive and quickest to market SMR.

Natrium Integrated Energy System - GEH is working with TerraPower to develop the Natrium™ technology, a sodium fast reactor with integrated energy storage (IES). Together the team reinvented what nuclear can be: flexible and cost competitive. Natrium's architecture has been specifically designed to lower operational costs, simplify construction and reduce schedule compared to previous reactor types. On a per MWe basis, it uses 80% less nuclear-grade concrete compared to today's large reactors. Its energy storage system can provide customizable GWhe scale energy storage to capture greater revenue thereby eliminating the economic penalty for load following while supporting grids with high renewables penetration.

Versatile Test Reactor - GEH and TerraPower are on the team led by Bechtel National Inc. to support the design and build phase of the Versatile Test Reactor, a one-of-a-kind facility that would support research and development of innovative, clean nuclear energy technologies.

Location: Wilmington, NC
https://nuclear.gepower.com/
Founded: 1955
Principal/CEO: Jay Wileman
Major Investors: Confidential
Technology Class: BWRX-300 - GEN III+ SMR; Natrium - GEN IV Advanced Reactor
Reactor Type: BWRX-300 - Boiling water reactor; Natrium - Sodium fast reactor
Power Output (MWe/MWT): BWRX-300 - 300 MWe / 910 MWt; Natrium - 345 MWe /840 MWt (The IES system can boost output to 500MWe for more than 5 1/2 hours to serve peak demand)
Federal Engagement: DOE, NRC
Preferred Point of Contact: Bob Dunn | robert.dunn@ge.com

GENERAL ATOMICS ELECTROMAGNETIC SYSTEMS

ADVANCED NUCLEAR | DEVELOPER

General Atomics Electromagnetic Systems (GA-EMS) Group has been at the forefront of innovation in nuclear energy since the 1950s. We continue to push the boundaries of what is possible in advanced nuclear reactors while helping to sustain our current reactor fleet and spinning off advanced material technologies that have the potential to enhance public safety and well-being. GA's TRIGA® research reactors are some of the most successful reactor designs in history.

GA-EMS is building on its experience with TRIGA® in developing the next generation of advanced fission reactors, such as the 50 MWe Fast Modular Reactor (FMR) for distributed power generation in the mid-2030s to be followed by the 265 MWe 4-unit (1 GWe) Energy Multiplier Module (EM2) for grid-scale power generation. These two load-following advanced high temperature helium-cooled fast reactors have a net efficiency as high as 53%. Both reactors employ cutting-edge advances in materials science to address the four core challenges facing nuclear energy – safety, waste, cost, and non- proliferation. EM2 and FMR can be powered by fresh or spent nuclear fuel and operated without refueling for up to 30 for EM2 and 9 years for the FMR.

GA is developing silicon carbide composites, SiGA®, for Accident Tolerant Fuel cladding and reactor components, such as those in the EM2 and FMR. Innovative technology solutions are underway for specialty nuclear fuels, radioactive waste remediation, advanced materials for extreme environment applications, space reactors for both propulsion and power.

Location: San Diego, CA
Founded: 1955
Principal/CEO: Neal Blue
Major Investors: Non-disclosed
Technology Class: Advanced nuclear reactors, fuels and materials
Reactor Type: High temperature gas cooled fast reactors
Power Output (MWe/MWT): 50MWe / 112 MWt (FMR); 4 x 265 MWE / 4 x 500 MWt (EM2)
Federal Engagement: DOE, GAIN, NRC, DARPA, DoD, NASA, Other
Preferred Point of Contact: Ron Faibish | ron.faibish@ga.com | 202-713-8333

https://www.ga.com/ems

HADRON ENERGY, INC.

ADVANCED NUCLEAR | DEVELOPER

Hadron Energy is developing micro modular reactors to power data centers, government sites, remote communities, industrial applications and more with 24/7 emissions free energy. We have a cumulative of 3.5 GW signed customer agreements resulting in demand for 2,000 Hadron Microreactors globally.

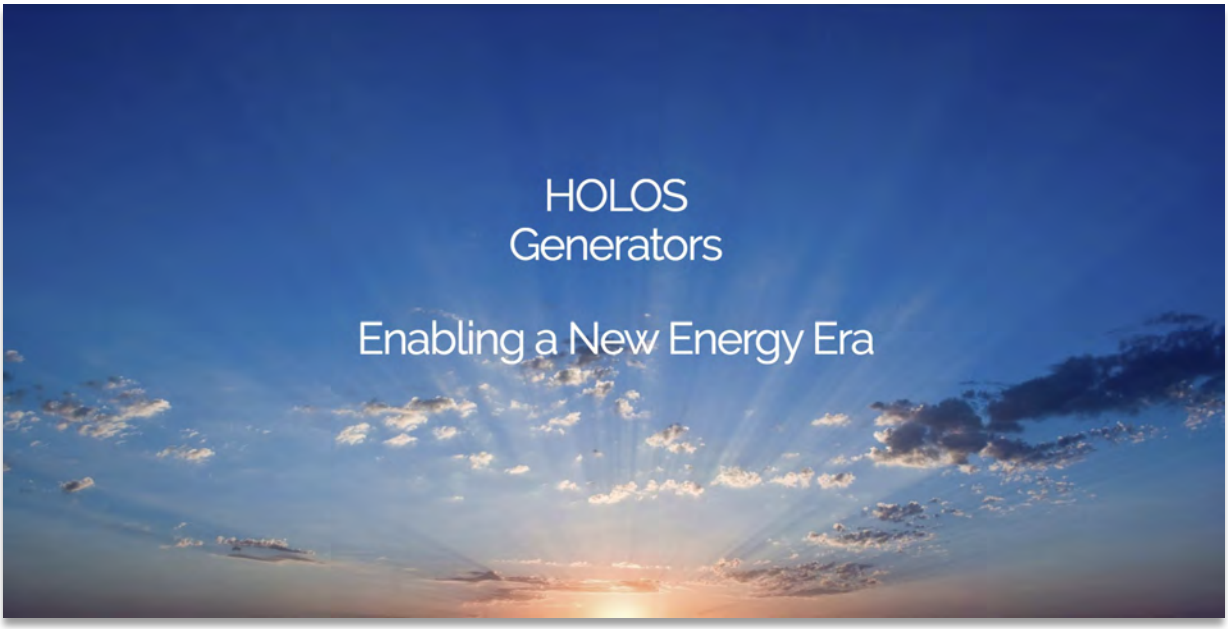
Location: San Francisco, CA
Founded: 2024
Principal/CEO: Samuel Gibson
Major Investors: Samuel Gibson
Technology Class: Micro Modular Reactor
Reactor Type: Pressurized Water Reactor
Power Output (MWe/MWT): 2 MWe, 7MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Samuel Gibson | sgibson@hadronenergy.com | 605-929-7913

https://www.hadronenergy.com/

HOLOSGEN LLC

HolosGen™

HolosGen develops mobile scalable integral nuclear generators with simplified and innovative designs that are optimized to produce economical, distributable, pollutant-free, and most importantly, safe electricity.



ADVANCED NUCLEAR | DEVELOPER

Location: Manassas Park, VA
Founded: 2017
Principal/CEO: Claudio Filippone
Major Investors: Non-disclosed
Technology Class: Gas cooled
Reactor Type: High temperature gas reactor
Power Output (MWe/MWT): 3-81 MWe / 5-135 MWt
Federal Engagement: N/A
Preferred Point of Contact: Claudio Filippone | http://www.holosgen.com/contact-us/

http://www.holosgen.com/

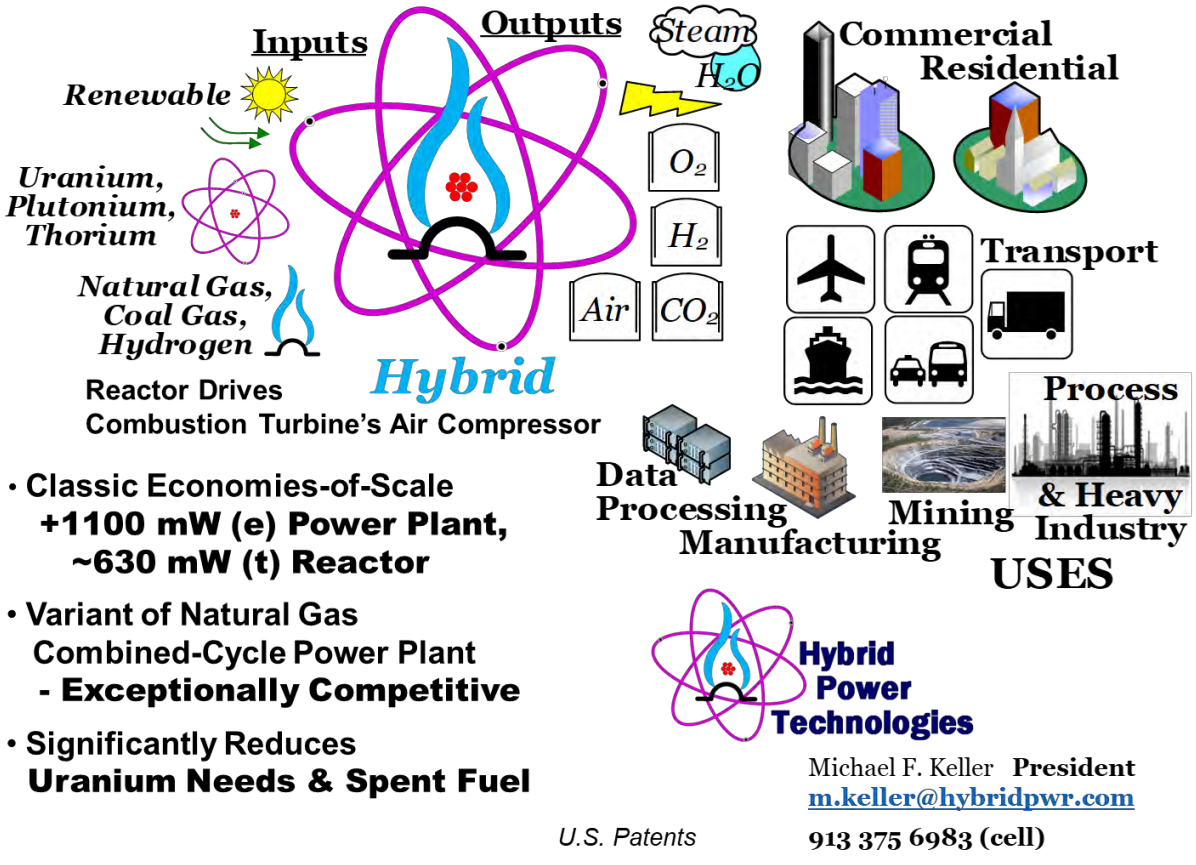
HOLTEC INTERNATIONAL

ADVANCED NUCLEAR | DEVELOPER

Holtec's SMR-160 is a robust small modular reactor that delivers 160 MW net electric in a small footprint. SMR-160 is based on pressurized water reactor technology and uses low enriched uranium fuel to provide reliable, affordable and carbon-free energy. The SMR-160 is "walk-away safe," requiring no operator actions during natural disasters, man-made threats, or any of the conditions required to be considered by U.S. regulations. It is the ideal solution for sustaining economic growth worldwide. Since SMR-160 can integrate readily to both established electrical grids or as an independent distributed power source, it is well adapted for both undeveloped and developed countries. SMR160 is truly modular. The majority of the plant's equipment and structures are factory -fabricated and can be delivered to each site in segments. An SMR-160-based site can easily be expanded with additional units to meet current and future demand. Please visit www.smrllc.com for more information.

Location: Camden, NJ https://holtecinternational.com/products-and-services/smr/
Founded: 1986
Principal/CEO: Dr. Krishna P. Singh
Major Investors: Non-disclosed
Technology Class: Advanced Small Modular Reactor
Reactor Type: Light Water PWR
Power Output (MWe/MWT): 160 MWe
Federal Engagement: DOE, NRC
Preferred Point of Contact: Myron Kaczmarsky | m.kaczmarsky@holtec.com | 856-797-0900 x 3657

HYBRID POWER TECHNOLOGIES LLC



Location: Overland Park, KS
Founded: 2011
Principal/CEO: Michael F. Keller
Major Investors: Privately funded
Technology Class: Gas cooled
Reactor Type: Graphite moderated, helium cooled
Power Output (MWe/MWt): +1100 MWe/+630 MWt (Reactor)
Federal Engagement: N/A
Preferred Point of Contact: Michael F. Keller | m.keller@hybridpwr.com | 913-375-6983 (cell)

https://www.hybridpwr.com/

KAIROS POWER LLC

ADVANCED NUCLEAR | DEVELOPER

Kairos Power

Kairos Power is a mission-driven company singularly focused on its effort to commercialize the fluoride salt-cooled high-temperature reactor (FHR) in time to play a significant role in the fight against climate change. Kairos Power is disrupting the industry with rapid iterative development and vertical integration strategies to deliver a clean energy solution with robust safety at an affordable cost.

Location: Alameda, CA
Founded: 2016
Principal/CEO: Mike Laufer
Major Investors: Non-disclosed
Technology Class: Solid-fueled/Molten salt cooled
Reactor Type: Graphite-moderated, fluoride salt-cooled, high temperature reactor
Power Output (MWe/MWT): KP-X Demonstration Plant (50 MWe), KP-FHR Commercial Fleet (each unit will be 75 MWe)
Federal Engagement: GAIN
Preferred Point of Contact: info@kairospower.com | 510-808-5265

https://kairospower.com

MICRONUCLEAR LLC

ADVANCED NUCLEAR | DEVELOPER

MicroNuclear LLC is focused on developing energy solutions. Current efforts include development of the Molten Salt Nuclear Battery (MsNB) as well as instrumentation and components for severe environment applications.

Location: Brentwood, TN
Founded: 2017
Principal/CEO: Paul Marotta
Major Investors: Proprietary private investors
Technology Class: Advanced Microreactor
Reactor Type: Molten Salt Dissolved Fuel
Power Output (MWe/MWT): 5-10MWe / 10-20MWt
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Paul Marotta | paul@micronucleartech.com | 615-417-3649

https://micronucleartech.com/

MOBILENUCLEAR ENERGY LLC

ADVANCED NUCLEAR | DEVELOPER

At MobileNuclear, we are dedicated to redefining the energy landscape with innovative, secure, and versatile mobile nuclear power solutions. Reliable, resilient energy...anywhere, anytime.

Location: Richmond, VA
Founded: 2024
Principal/CEO: Chris Pehrson
Major Investors: Non-Disclosed
Technology Class: High Temp Gas Reactor
Reactor Type: Mobile Microreactor
Power Output (MWe/MWT): 1MWt / 350 KWe
Federal Engagement: DOE, GAIN, NRC, DOD, DHS, IC
Preferred Point of Contact: Chris Pehrson | chris.pehrson@mobilenuclear.llc | 202-617-1933

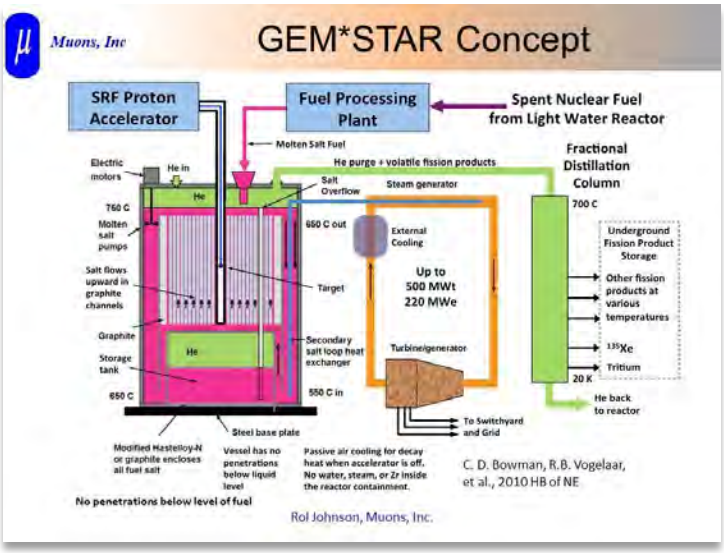
https://mobilenuclear.energy/

MUONS, INC.

ADVANCED NUCLEAR | DEVELOPER

Muons, Inc.
Innovation in Research

Partnering with national labs and universities with their extraordinary people and facilities, Muons has leveraged its creative talents to provide solutions to many problems of global and national interest. Muons has received over $30M in competitive DOE contracts and Small Business Innovation and Technology Transfer Research grants, which have generated intellectual property as well as appreciation for our work in the accelerator and reactor communities. Examples of our inventions are included in discovery science (Muon Collider, the next atom smasher); medicine (Energy-Recovery Linacs for commercial production of new radioisotopes for therapy and diagnostics); national security (photon and neutron sources for cargo scanning); energy and environment (Mu*STAR subcritical system for carbon-free energy production); and industry (magnetron power sources for RF cavities). As a supporter of science and technology, Muons supports students and post-docs and provides computer programs for accelerator and reactor communities.



Location: Batavia, IL
Founded: 2002
Principal/CEO: Rolland Johnson, President
Major Investors: Rolland Johnson
Technology Class: Advanced reactor developer
Reactor Type: SRF linac driven subcritical molten salt thermal spectrum SMR
Power Output (MWe/MWT): 220 MWe/500 MWt
Federal Engagement: DOE, ARPA-E, GAIN, DOE SBIR-STTR Programs
Preferred Point of Contact: Rolland Johnson | rol@muonsinc.com | 757-870-6943

https://muonsinc.com/

NANO NUCLEAR ENERGY INC.

ADVANCED NUCLEAR | DEVELOPER

Nano Nuclear Energy Inc. is a nuclear reactor company focusing on developing deployable mobile reactors, capable of servicing remote industrial and manufacturing projects, previously uneconomic mining sites, oil, and gas projects, military bases, remote towns, islands, and disaster affected areas quickly requiring power. Nano has already engaged with several major institutional lenders and secured investment commitments. The Nano managerial and Executive team brings extensive capital and public markets experience to the Company, and intends to deploy that experience to Nano's benefit through IPOs and capital market raises. Nano strongly supports of the DOS and IAEA's objectives for the peaceful use of nuclear energy, and we intend our technology to form part of the U.S. foreign policy to advance the peaceful use of nuclear energy, science, and technology, and drive new resources to projects and activities in developing countries with the greatest need. Nano will seek to become a nuclear technology organization that can grow U.S. global energy market engagement and support global market opportunities.

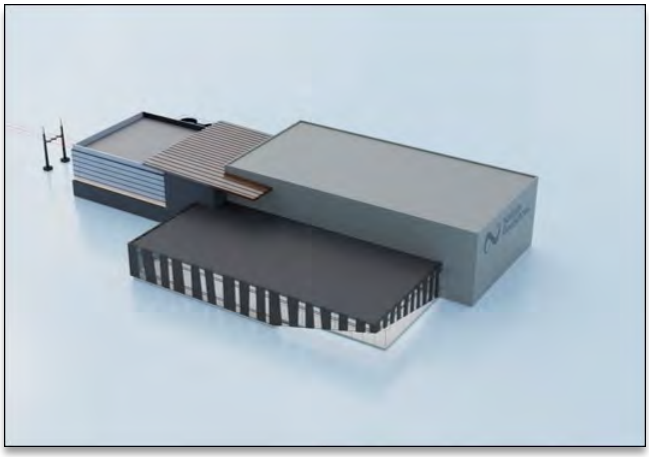
Location: New York, NY
Founded: 2018
Principal/CEO: James Walker
Major Investors: UPS
Technology Class: Solid Core
Reactor Type: Microreactor
Power Output (MWe/MWT): 1MWe / 2.5 MWt
Federal Engagement: DOE, ARPA-E, GAIN
Preferred Point of Contact: James Walker, CEO | info@nanonuclearenergy.com

https://nanonuclearenergy.com/

NATURA RESOURCES

ADVANCED NUCLEAR | DEVELOPER

Natura Resources is a leading developer of advanced reactors. Our small modular reactor systems are liquid-fueled and molten salt-cooled, which increases overall efficiency and safety while decreasing cost and reducing waste. Our demonstration reactor, the Natura MSR-1, is being deployed at Abilene Christian University (ACU) and is the first liquid-fueled reactor design to receive a construction permit from the U.S. Nuclear Regulatory Commission (NRC). In less than five years, Natura has established itself as a leading force in the advanced nuclear industry, driven by a commitment to performance. Natura's leadership team has a proven track record of revolutionizing the energy industry with innovative technology and tangible results.



Deploying demonstration reactor at Abilene Christian University (MSR-1) and developing small modular reactor systems (SMR-100) for commercial deployment.

Location: Abilene, TX
Founded: 2020
Principal/CEO: Douglas Robison
Major Investors: Privately funded
Technology Class: Gen-IV Advanced Reactor Technology, Liquid-Fueled Molten Salt Reactors
Reactor Type: Liquid-Fueled Molten Salt Reactor (LF-MSR)
Power Output (MWe/MWT): MSR-1—1 MWth (n/a Mwe), MSR-100—250 MWth (100 Mwe)
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Jordan Robison | Jordan@naturaresouces.com | 972-741-2649

https://www.naturaresources.com/

NEUTRONIX

ADVANCED NUCLEAR | DEVELOPER

Neutronix is a nuclear startup developing next-generation microreactors for near-term, scalable clean energy deployment. Our philosophy emphasizes rapid deployability by leveraging proven technologies, established supply chains, and streamlined licensing pathways. We've developed two distinct microreactor designs—each tailored to a dedicated fleet—engineered for cost-efficiency and market adaptability:

ORCA – Off-grid Reactor for Continuous and Autonomous Application

SLOTH – Strategic Logistical Operation for Onsite Task Handling

As we move toward prototyping and testing our first reactor, we're seeking to align with strategic partners and investors who share our vision for a new era of reliable and sustainable nuclear energy.

Location: Idaho Falls, ID
Founded: 2024
Principal/CEO: Fakhrul Islam
Major Investors: Actively seeking investment
Technology Class: High Temperature Gas Reactor
Reactor Type: Microreactor
Power Output (MWe/MWT): 5MWt / 2 MWe, 40 MWt / 15 MWe
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Fakhrul Islam | contact@neutronixenergy.com | 803-477-1134

https://neutronixenergy.com

NIOWAVE, INC.

ADVANCED NUCLEAR | DEVELOPER

Niowave is utilizing transformative science and technology for advancing nuclear power to meet the nation's energy and security needs. Niowave's Radioisotope Program established both the facilities and the NRC license to operate a subcritical assembly and perform nuclear fuel reprocessing. The team is developing a hybrid fast/thermal spectrum subcritical testbed, coupled to a superconducting electron linac, to provide peak fast-spectrum neutron fluxes greater than 1E15 n/cm2s in heavy liquid-metal environment. The facility will be used to test novel fuels, materials, instruments and components, reactor safety designs, provide data for reactor code development, and support the regulatory process for licensing novel technology.

Location: Lansing, MI
Founded: 2005
Principal/CEO: Terry L. Grimm, President
Major Investors: Privately funded
Technology Class: Liquid metal cooled (lead-bismuth eutectic)
Reactor Type: Hybrid fast/thermal spectrum subcritical testbed
Power Output (MWe/MWT): 0.1-10 MWt
Federal Engagement: DOE, NRC, DoD,
Preferred Point of Contact: Robert Wahlen | wahlen@niowaveinc.com | 517-999-3475

https://www.niowaveinc.com/

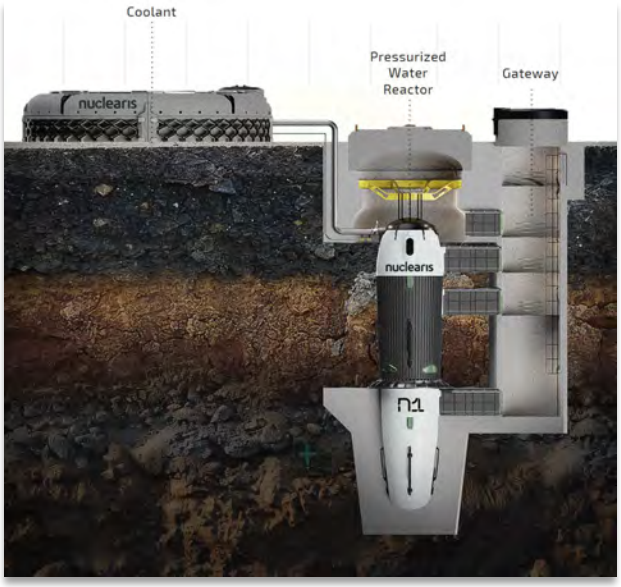
NUCLEARIS ENERGY INC

ADVANCED NUCLEAR | DEVELOPER

Nuclearis Energy's mission is to accelerate energy transition, enhance energy security and access by developing a micro modular reactor using conventional nuclear technology.

By integrating state-of-the-art design, rigorous quality control, and industry-leading expertise, Nuclearis is shaping the future of clean, reliable nuclear energy.

The Nuclearis N1 Micro Modular Reactor is an advanced integrated Pressurized Water Reactor (PWR) designed to operate without refueling over its entire lifecycle. Housed in a transportable containment unit and installed underground, the N1 leverages natural convection for cooling and heat dissipation. The reactor uses fuel enrichment of less than 4.95% and produces 42 MWt or 17 MWe at an efficiency of 40%, requiring no refueling during its operational lifetime.



At its core, the N1 is designed through a smart integration of proven technologies, ensuring reliability and safety. Its modular design enables efficient manufacturing and deployment, offering cost-effective, autonomous operation for up to 30 years.

Post-operation, the reactor transitions into a dry storage facility for spent fuel by replacing water with inert gases, ensuring safety for over 100 years.

Location: Wilmington, DE
Founded: 2018
Principal/CEO: Santiago Pedro Badran
Major Investors: Non-disclosed
Technology Class: Advanced Micro Modular Reactor (MMR)
Reactor Type: Light Water Pressurized Water Reactor (PWR)
Power Output (MWe/MWT): 17 Mwe / 42 MWt
Federal Engagement: GAIN, NRC
Preferred Point of Contact: Moses Ntereke | moses@nuclearisenergy.com

https://nuclearisenergy.com/

NUCUBE ENERGY

ADVANCED NUCLEAR | DEVELOPER

NuCube is a nuclear technology company that aims to provide scalable clean energy solutions to meet energy security needs . Our vision is a world powered by small, safe, simple, and economically viable reactors that provide electricity and process heat. Our mission is to develop simple and passively safe nuclear technology that enables this vision.

Achieving this vision requires a new approach to nuclear energy. Rather than starting with an existing concept and modifying the design, we have developed a series of innovative systems and designed a reactor from the ground up to address both electricity and process heat markets.

Location: Idaho Falls, ID
Founded: 2023
Principal/CEO: Dr. Cristian Rabiti
Major Investors: IdeaLab Studios
Technology Class: Microreactor
Reactor Type: TRISO Fueled, Graphite Moderated
Power Output (MWe/MWT): 4MWt, 1.2 MWe
Federal Engagement: DOE, GAIN,
Preferred Point of Contact: Lorin Young | nucube@nucube.energy

https://nucube.energy/

NUGEN, LLC

ADVANCED NUCLEAR | DEVELOPER

The NuGen Engine™ is an innovative direct-cycle gas-cooled microreactor for land, sea and space use. Its “first principles” design includes a patented spiral fuel core integrated with a unique simplified energy conversion mechanism. It will have a 15-year fuel life, be contained in a single transportable module and be capable of semi-autonomous operations.

The simpler, compacter system has higher efficiency and is more manufacturable and transportable, with less maintenance. It will provide flexible off-grid power—electricity, high-quality process heat, and cogeneration onsite at the point-of-use. It will also support mini- and macro-grids, shipping applications, and space power and propulsion.

NuGen’s patents (8 US, 1 UK and 1 AUS) are listed at https://www.nucdev.com/about-us.html. Additional patents are pending.

https://www.nucdev.com/

Location: Charlotte, NC
Founded: 2006
Principal/CEO: Steve Rhyne
Major Investors: Founder
Technology Class: Advanced Integral HTGR
Reactor Type: Transportable/Mobile Microreactor
Power Output (MWe/MWT): 2-3 MWe
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Steve Rhyne | steve@nucdev.com | 704-307-7280

NUSCALE POWER

ADVANCED NUCLEAR | DEVELOPER

NuScale Power has developed a new modular light water reactor nuclear power plant to supply energy for electrical generation, district heating, desalination, and other process heat applications. This groundbreaking small modular reactor (SMR) design features a fully factory-fabricated NuScale Power Module™ capable of generating 77 MW of electricity using a safer, smaller, and scalable version of pressurized water reactor technology. NuScale's scalable design—power plants that can house up to four, six, or 12 individual power modules—offers the benefits of carbon-free energy and reduces the financial commitments associated with gigawatt-sized nuclear facilities. The majority investor in NuScale is Fluor Corporation, a global engineering, procurement, and construction company with a 60-year history in commercial nuclear power.

NuScale is headquartered in Portland, OR and has offices in Corvallis, OR; Rockville, MD; Charlotte, NC; Richland, WA; and London, UK. Follow us on Twitter: @NuScale_Power, Facebook: NuScale Power, LLC, LinkedIn: NuScale-Power, and Instagram: nuscale_power. Visit NuScale Power's website.

https://www.nuscalepower.com/

Location: Portland, OR
Founded: 2007
Principal/CEO: John Hopkins
Major Investors: Fluor Corporation
Technology Class: Water cooled
Reactor Type: Integral pressurized water reactor
Power Output (MWe/MWT): 50 MWe
Federal Engagement: DOE, NRC
Preferred Point of Contact: Ryan Dean, Sr. Public Affairs Specialist | rdean@nuscalepower.com

OKLO INC.

ADVANCED NUCLEAR | DEVELOPER

Oklo Inc. is developing fast fission power plants to deliver clean, reliable, and affordable energy at scale, establishing a domestic supply chain for critical radioisotopes, and advancing nuclear fuel recycling to convert nuclear waste into clean energy. Oklo was the first to receive a site use permit from the U.S. Department of Energy for a commercial advanced fission plant, was awarded fuel from Idaho National Laboratory, and submitted the first custom combined license application for an advanced reactor to the U.S. Nuclear Regulatory Commission. Oklo is also developing advanced fuel recycling technologies in collaboration with the U.S. Department of Energy and national laboratories.

Location: Santa Clara, CA
Founded: 2013
Principal/CEO: Jacob DeWitte
Major Investors: Public company on the New York Stock Exchange NYSE: OKLO
Technology Class: Oklo's powerhouse is a fast reactor, part of the liquid metal fast reactor technology class with a proven operating legacy and significant potential for scalable clean energy.
Reactor Type: Fast Reactor
Power Output (MWe/MWT): 75 Mwe, 234 MWth
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Bonita Chester | media@oklo.com

https://www.oklo.com/

RADIANT

ADVANCED NUCLEAR | DEVELOPER

Radiant is making nuclear power portable. Radiant's mission is to develop an economical, reliable reactor that will transform the nuclear industry through autonomous operation. Portable microreactors can be used for disaster relief scenarios, resilient backup power, or as a microgrid power source. Our design uses only proven, qualified materials and technology and will achieve full scale demonstration in 5 years.

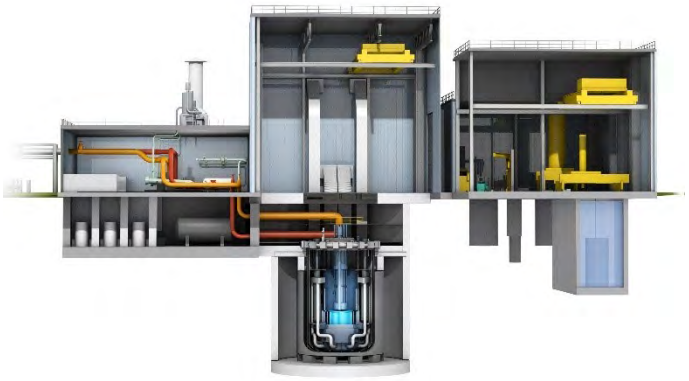
Location: El Segundo, CA
Founded: 2019
Principal/CEO: Douglas Bernauer
Major Investors: Boost VC
Technology Class: micro-HTGR
Reactor Type: HTGR
Power Output (MWe/MWT): 1.2 MWe /3.5 MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC, NASA
Preferred Point of Contact: Douglas Bernauer | doug@radiantnuclear.com | 216-965-3509

https://www.radiantnuclear.com/

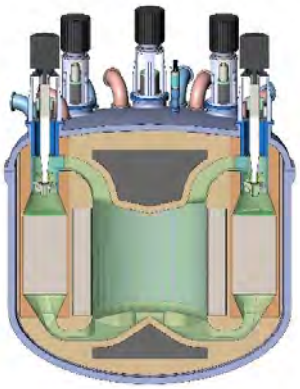
TERRAPOWER, LLC

ADVANCED NUCLEAR | DEVELOPER

TerraPower is a nuclear innovation company that originated with Bill Gates and a group of like-minded visionaries who evaluated the fundamental challenges to raising living standards around the world. TerraPower's mission is to solve the world's toughest problems in energy, climate and human health through innovative nuclear technology. The Natrium™ reactor and integrated energy storage system is redefining what nuclear energy can be and is being demonstrated at a retiring coal facility. The Molten Chloride Fast Reactor technology is expanding the ability of nuclear technology to decarbonize industry beyond electricity, and TerraPower Isotopes develops processes to extract radioisotopes as raw materials for use by cancer drug developers.



Natrium™ Reactor



Molten Chloride Fast Reactor

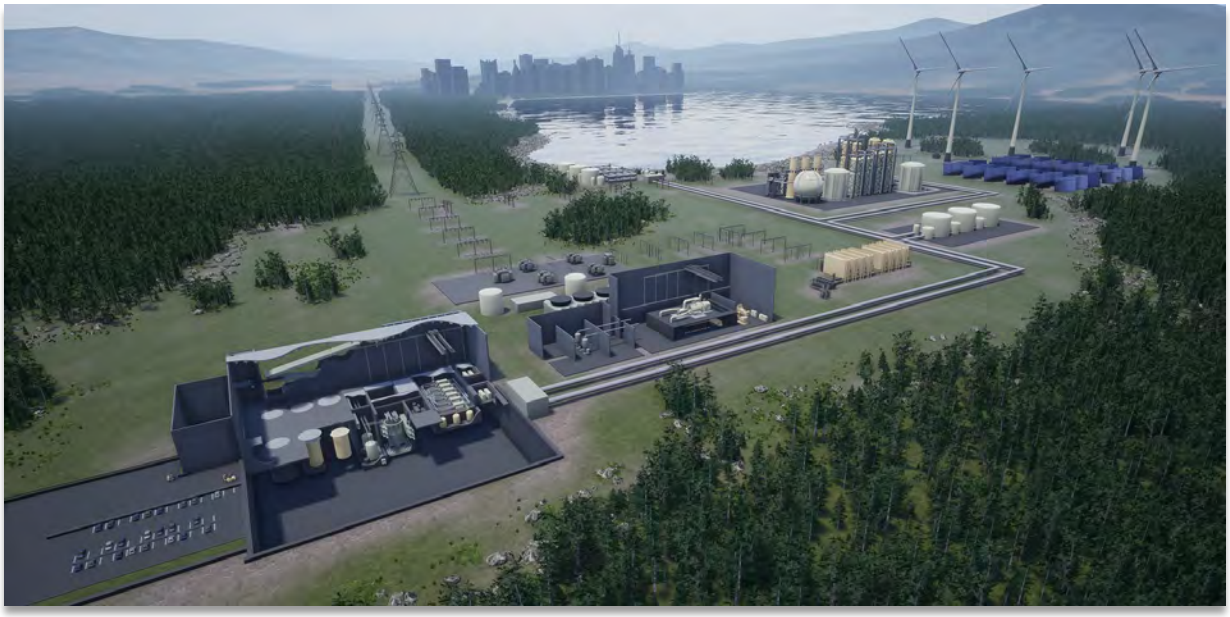
Location: Bellevue, WA
Founded: 2008
Principal/CEO: Bill Gates (Chairman), Chris Levesque (President and CEO)
Major Investors: Non-disclosed
Technology Class: Liquid metal and salt cooled
Reactor Type: Natrium™ reactor—sodium-cooled fast reactor; Molten chloride fast reactor—molten salt/liquid fuel fast reactor
Power Output (MWe/MWT): Natrium reactor—345 MWe for demonstration project, flexible sizing up to gigawatt scale; Molten chloride fast reactor—flexible size range up to 800 MWe
Federal Engagement: DOE, NRC
Preferred Point of Contact: press@terrapower.com

https://www.terrapower.com/

TERRESTRIAL ENERGY USA, INC.

ADVANCED NUCLEAR | DEVELOPER

Terrestrial Energy USA is developing an advanced Small Modular Reactor (aSMR) design using Integral Molten Salt Reactor (IMSR®) technology to provide cost-competitive electricity and process heat to U.S. industry, and plans for first commercial deployment in the 2020s. The IMSR® design is a graphite moderated, LEU once-through fueled, fluoride molten salt reactor (MSR) that uses a replaceable reactor core architecture.



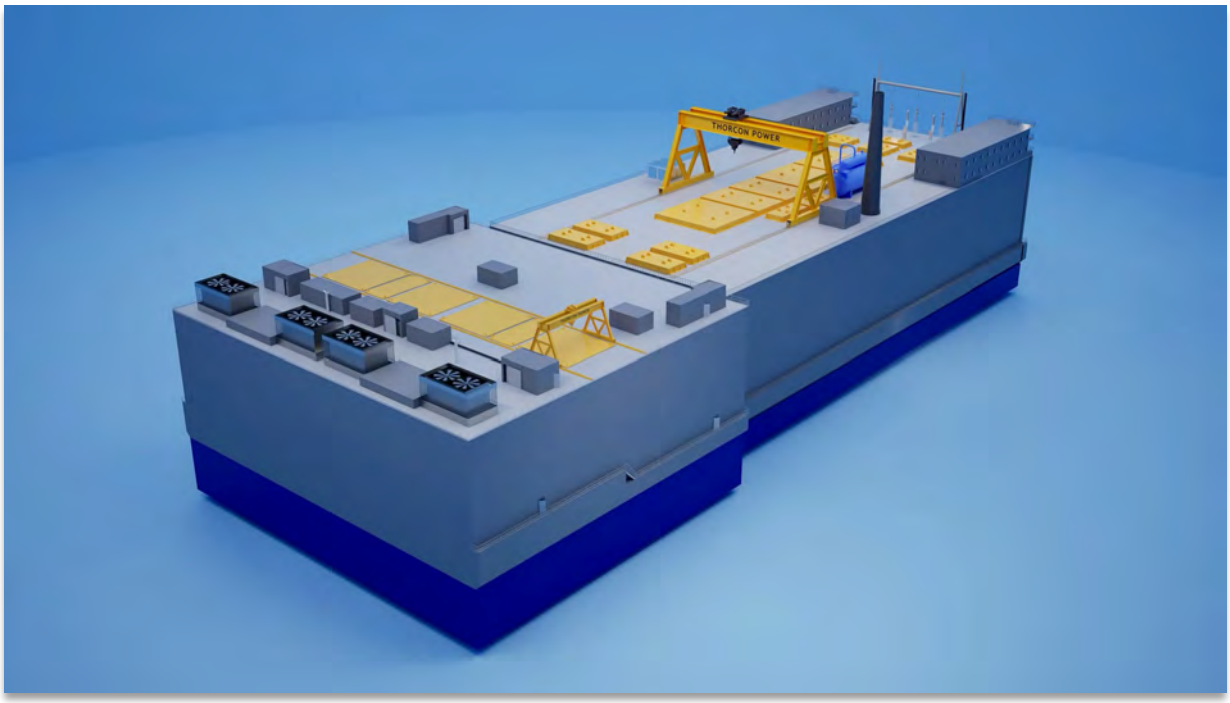
Location: Charlotte, NC
Founded: 2014
Principal/CEO: Simon Irish
Major Investors: Private investors
Technology Class: Advanced small modular reactor
Reactor Type: Molten salt reactor
Power Output (MWe/MWT): 390 MWe / 884 MWth
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Robin Rickman | rrickman@terrestrialusa.com | 646-687-8212 ext. 531

https://terrestrialusa.com/

THORCON INTERNATIONAL

ADVANCED NUCLEAR | DEVELOPER

Thorcon International is developing a shipyard-produced, molten salt reactor power plant that generates clean, full-time electric power at a cost competitive with coal.

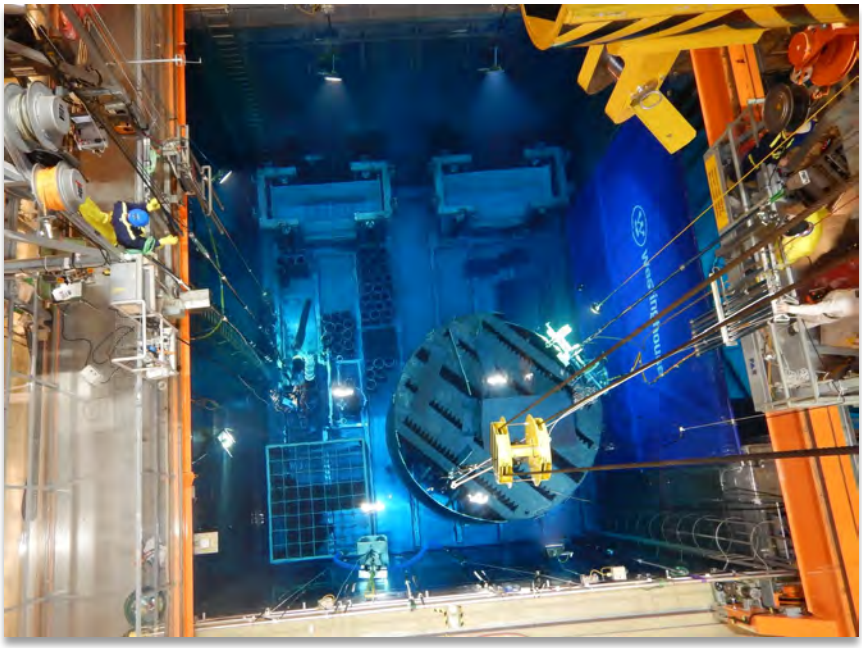


Location: Indonesia, Singapore, Dubai, US, Spain, Italy, S Korea https://thorconpower.com/
Founded: 2016
Principal/CEO: Matt Wilkinson
Major Investors: Non-disclosed
Technology Class: Salt cooled
Reactor Type: Thermal molten salt reactor
Power Output (MWe/MWT): 500 MWe / 2x557 MWt
Federal Engagement: N/A
Preferred Point of Contact: info@thorconpower.com

WESTINGHOUSE ELECTRIC COMPANY LLC

ADVANCED NUCLEAR | DEVELOPER

Westinghouse Electric Company is the world's pioneering nuclear energy company and is a leading supplier of nuclear plant products and technologies to utilities throughout the world. Westinghouse supplied the world's first commercial pressurized water reactor in 1957 in Shippingport, PA, United States. Today, Westinghouse technology is the basis for approximately one-half of the world's operating nuclear plants.



For more information, please visit www.westinghousenuclear.com.

Location: Cranberry Township, PA
Founded: 1886
Principal/CEO: Patrick Fragman, President and CEO
Major Investors: Brookfield Business Partners L.P.
Technology Class: Advanced modular reactor
Reactor Type: Lead cooled fast reactor; heat pipe cooled reactor
Power Output (MWe/MWT): Lead cooled fast reactor- 400-500 MWe / 950 MWt; Heat pipe cooled reactor- 0.5-6 MWe / 2-20 MWt
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Michael Valore | valorema@westinghouse.com

https://www.westinghousenuclear.com/

ADVANCED NUCLEAR | DEVELOPER

X-ENERGY, LLC

X-energy is a leading developer of advanced small modular nuclear reactors and fuel technology for clean energy generation that is redefining the nuclear energy industry through its development of safer and more efficient advanced small modular nuclear reactors and proprietary fuel to deliver reliable, zero-carbon and affordable energy to people around the world. X-energy's simplified, modular, and intrinsically safe SMR design expands applications and markets for deployment of nuclear technology and drives enhanced safety, lower cost and faster construction timelines when compared with other SMRs and conventional nuclear.

Location: Rockville, MD
https://www.x-energy.com/
Founded: 2009
Principal/CEO: J. Clay Sell, CEO | Kam Ghaffarian, Owner
Major Investors: Amazon, Ken Griffin, Segra Capital Management, Jane Street, Ares Management funds, Emerson Collective, University of Michigan, NGP
Technology Class: Gas cooled reactor
Reactor Type: High temperature gas cooled pebble bed reactor
Power Output (MWe/MWT): 80 MWe / 200 MWt
Federal Engagement: DOE, (Advanced Reactor Demonstration Program, ARPA-E), NRC
Preferred Point of Contact: https://x-energy.com/contact-us

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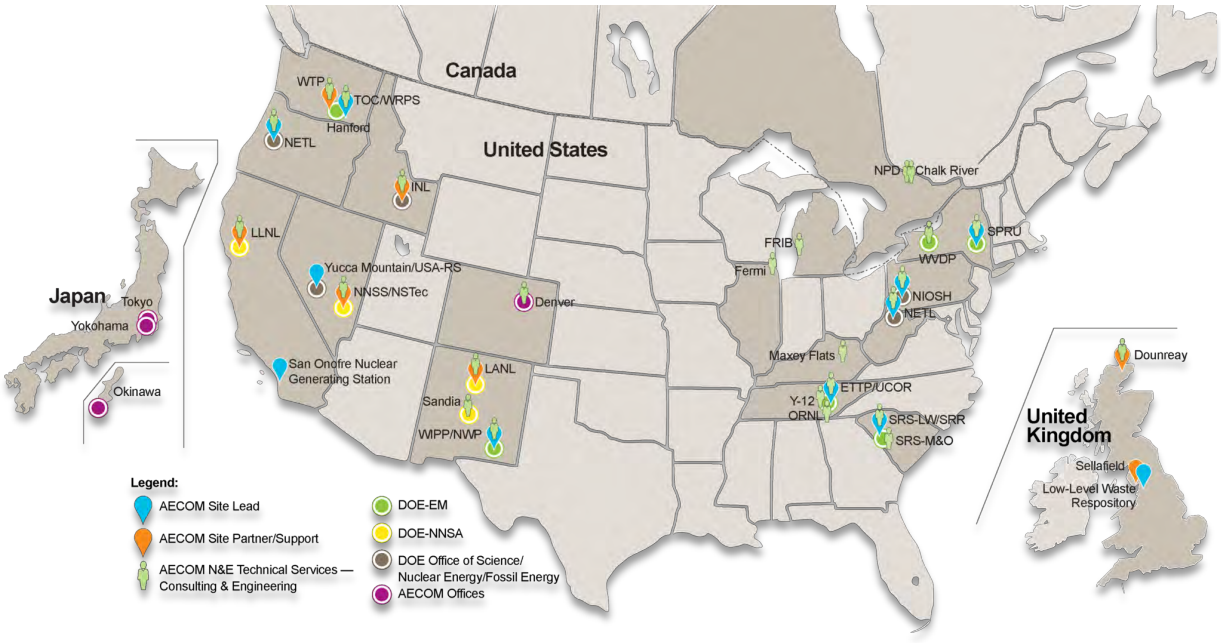
SUPPLIERS

AECOM

AECOM is a global network of experts working with clients, communities and colleagues to develop and implement innovative solutions to the world's most complex challenges, from delivering clean water and energy to helping governments maintain stability and security. AECOM connects expertise across services, markets, and geographies to deliver transformative outcomes.



Location: Aiken, SC
Founded: 1990
Principal/CEO: Mike Burke
Major Customers: Non-disclosed
Federal Engagement: DOE, Other
Preferred Point of Contact: https://aecom.com/contact-us/

https://aecom.com/

AeCON

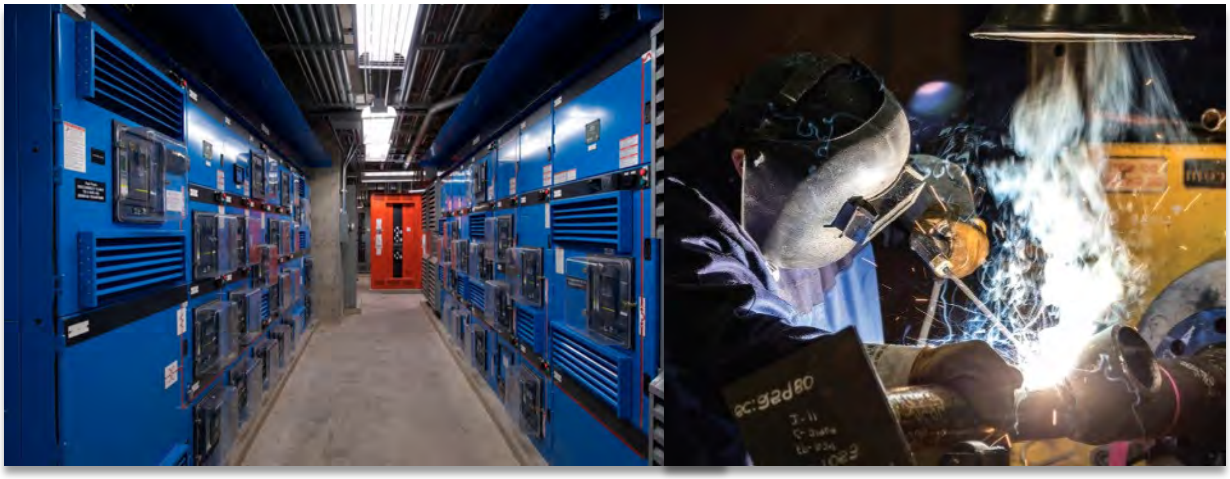
ADVANCED NUCLEAR | SUPPLIER

Aecon provides a full spectrum of Engineering, Procurement, Fabrication, and Construction (EPFC) services, along with NQA-1 capabilities, specifically tailored to meet the demanding requirements of the federal sector.

Our complete range of client solutions spans the full project lifecycle from project development, financing, and investment through construction and turnover, and into commissioning, operations, and maintenance.

Capabilities:

- New Construction
- Demolition and Dismantlement
- Modifications, Upgrades, and Replacement
- Mechanical, Electrical, Civil/Structural
- Modularization and Equipment Fabrication
- Plant Equipment and Component Replacements
- Facility Maintenance and Temporary Structures



Location: Charlotte, NC
Founded: 1867
Principal/CEO: Brad Smalldridge, Vice President of Nuclear Operations
Major Customers: Commonwealth Fusion, ORNL, UCOR, SRS, SRNS, Fluor, Energy Solutions, Kiewit
Federal Engagement: DOE, ARPA-E, GAIN, NRC, ETEBA
Preferred Point of Contact: Al Magley, Director of U.S. Federal Services East
amagleyjr@aecon.com | 803-508-9494

https://www.aecon.com/us

ALPHASOURCE, INC.

ADVANCED NUCLEAR | SUPPLIER

At Alphasource®, we are driven by a simple and well-documented fact – the most efficient and cost-effective power plants are those that are the most safely maintained and operated. For the past 30 years, our mission has been to provide our Power Industry partners with cost-effective innovative and end user centric Foreign Material Exclusion (FME) and Drop Prevention product lines and services that increase plant efficiency, and reduce the number of accidents and damaged equipment and tools. With over 125 years of Power Industry experience, our team ensures we provide only the products and services appropriate for your organizational and cultural needs. As a 4th generation, Woman-Owned and HUBZone certified business, Alphasource® is proud to support nuclear teams and facilities worldwide.

Custom-Manufactured FME Solutions of All Types and Sizes

Foreign material costs the International Power Industry billions of dollars each year in lost electrical generation, rework, equipment replacement/repair and manpower. As a response, Alphasource has been a provider of high quality engineered Foreign Material Exclusion (FME) control devices for the power industry for three decades. Over the years our products have become the industry standard and have been used extensively in power plants in the US and over 30 countries around the world, saving time, money, and other resources. All of our covers are certified to meet NFPA 701 Test Method 2 and NFPA 805 requirements, can be reused for years, and can be installed and removed in minutes without the use of tape, further reducing waste. Alphasource custom-manufactured covers can also be quickly designed for any project needs. For cost-effective methods to increase plant efficiency and maximize capacity factors, contact us today.

Python Safety™ by Toolsaver® Custom-Designed Drop Prevention Kits and Cabinets

Dropped objects can pose multiple risks in the workplace, such as injuring an employee or damaging expensive equipment. Our ToolSaver line of Drop Prevention tools was created to help significantly reduce the occurrence of these costly events. By striving to find solutions and listening to customer feedback, our product lines are innovative, high quality, and field proven. Importantly, our Drop Prevention tools are ISEA/ANSI 121-2018 certified. With a comprehensive product line of over 40 tool series, we are able to provide custom Drop Prevention product solutions in sizes ranging from large mobile cabinets to small, portable, self-contained kits stocked with items needed for your specific application. Let our expert team design a solution for you!

Location: Philadelphia, PA
https://www.alphasourceintl.com
Founded: 1908
Principal/CEO: Andrea Bookbinder
Major Customers: Nuclear Power Plants, Plant Service Companies, National Research Laboratories, and more
Federal Engagement: DOE
Preferred Point of Contact: Lee Lukas | lee@alphasourceintl.com | 410-610-6738

ANALYSIS AND MEASUREMENT SERVICES CORPORATION

INNOVATING NUCLEAR TECHNOLOGY
ANALYSIS AND MEASUREMENT SERVICES CORPORATION

AMS has decades of I&C testing experience within the operating fleet of light water reactors. As experts in I&C technologies, AMS offers next-generation reactor developers key insight and support in a variety of areas including I&C design specification support, pre-qualification testing of I&C sensors and cabling, development of I&C maintenance strategies and implementation procedures, implementation of online monitoring technologies, and a variety of other maintenance and diagnostic testing services.

ADVANCED NUCLEAR | SUPPLIER

Location: Knoxville, TN
Founded: 1977
Principal/CEO: H.M. Hashemian
Major Customers: Nuclear Power Plants and Facilities
Federal Engagement: DOE, NRIC, GAIN
Preferred Point of Contact: Adam Deatherage | adam@ams-corp.com | 865-691-1756 ext.223

https://www.ams-corp.com/

ANSYS

ADVANCED NUCLEAR | SUPPLIER

When visionary companies need to know how their world--changing ideas will perform, they close the gap between design and reality with Ansys simulation. For more than 50 years, Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, the next great leaps in human advancement will be powered by Ansys.

Founded in the Pittsburgh region and now headquartered in Canonsburg, PA, Ansys is dedicated to advancing simulation. Our nearly 6,000 employees are singularly focused, our spirit of innovation is reflected in 580+ active patents, and we are proud members of S&P and NASDAQ-100.

Nuclear reactors house extreme environments that are among the most difficult in the world for operating sensors. Yet these are exactly the environments where you need exquisite sensing capabilities - for detailed system monitoring, control, and predictive maintenance - to prevent catastrophe. Simulation is an essential part of the solution to this problem.

Physics-based simulation tools from Ansys are used in the nuclear industry to build, calibrate, validate, and deploy hybrid digital twins that provide real-time insights about a reactor through the power of virtual sensors. This is just one example of how digital twin technology is becoming increasingly important to nuclear power safety, by filling gaps in data and insight related to de--risking nuclear reactor design, licensing, and construction.

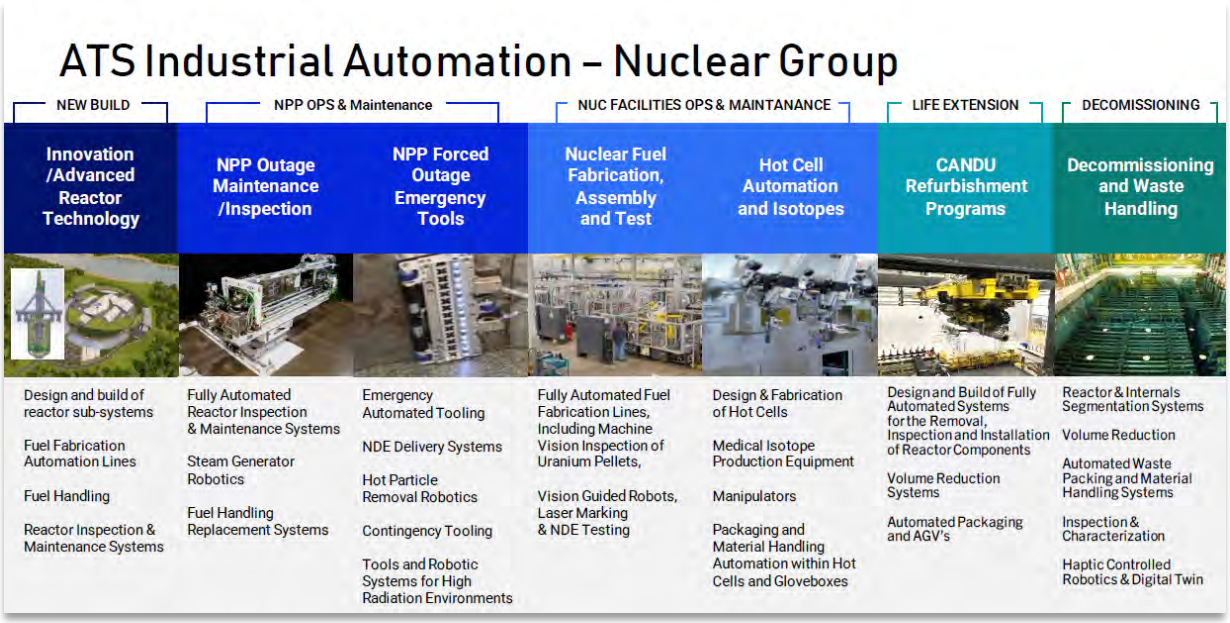
https://www.ansys.com/

Location: Global
Founded: 1970
Principal/CEO: Ajei Gopal
Major Customers: Non-disclosed
Federal Engagement: Non-Disclosed
Preferred Point of Contact: Mike Hancock | mike.hancock@ansys.com | 512-422-3093

ATS AUTOMATION

ADVANCED NUCLEAR | SUPPLIER

ATS Automation manufactures tooling and design automation for new reactor builds, refurbishment, operations and maintenance, and decommissioning across both large-scale and small modular reactors (SMRs). Automation yields reliable and repeatable processes that teams can plan and execute across locations and shifts.



Location: Columbus, OH
Founded: 1978
Principal/CEO: Andrew Hider
Major Customers: Nuscale, GE Power, Bruce Power, Ontario Power Generation, Holtec, Energy Solutions, Cameco, Aecon, Global Nuclear Fuel, General Motors
Federal Engagement: NRC
Preferred Point of Contact: Jason Sulzener | Jsulzener@atsautomation.com | 614-671-4607

https://atsindustrialautomation.com/

ADVANCED NUCLEAR | SUPPLIER

BECHTEL NUCLEAR, SECURITY & ENVIRONMENTAL

Bechtel's Nuclear, Security & Environmental global business unit leverages Bechtel's six decades in the nuclear industry to execute both commercial and government projects across the nuclear lifecycle. Bechtel's commercial nuclear power division is a global leader in the licensing, design, procurement, and construction of nuclear power plants, whether it is new build, plant completion or recovery, modifications to existing facilities, or advanced reactor technology development.

Location: Reston, VA
Founded: 1898
Principal/CEO: Barbara Rusinko
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, ARPA-E, DOD
Preferred Point of Contact: Muhammad Fahmy | mgfahmy@bechtel.com | 703-429-6859

https://www.bechtel.com/

BLUESTONE GROUP

ADVANCED NUCLEAR | SUPPLIER

Bluestone Group is a dynamic technical services company, specializing in staff augmentation and engineering consulting. With a strong emphasis on passion, trust, and respect, Bluestone Group is dedicated to delivering customer services that drive success for their clients. Bluestone Group is a proud certified Service-Disabled Veteran Owned Small Business, Veteran Owned Small Business, and Woman Owned Small Business, which has established itself as a leading technical services company across all energy sectors.

AWARDED: 2023 Best Small Business and 2024 Top Construction Staffing Company.

Services Offered:
1. Staff Augmentation:
Bluestone Group offers staff augmentation services to help businesses meet their workforce requirements fast and effectively. With an extensive team of skilled professionals, Bluestone Group provides contract and permanent staffing across a broad range of technical disciplines. By understanding the technical needs of each client, Bluestone Group ensures that they provide the best qualified professionals fast and efficiently.

2. Engineering Consulting:
Bluestone Group's engineering consulting services provide clients with expert guidance and strategic options to overcome complex technical challenges. Their team of experienced engineers and consultants collaborates closely with clients to deeply understand their goals, offering cost savings strategies and recommendations. Whether it's conducting feasibility studies, improving processes, or providing project management support, Bluestone Group's passion for engineering excellence drives them to deliver value-added ideas that enhance clients' operations.

Location: Charlotte, NC
Founded: 2020
Principal/CEO: Lauren Thew
Major Customers: Urenco USA, Los Alamos National Laboratory, Hanford Site, Lawrence Berkeley National Laboratory, and Oak Ridge National Laboratory
Federal Engagement: DOE
Preferred Point of Contact: Lauren Thew | lauren@bluestonego.com | 775-287-8240

https://bluestonego.com/

ADVANCED NUCLEAR | SUPPLIER

BNL INDUSTRIES INC.

BNL Industries, Inc. is a leading designer and manufacturer of high quality ball and check valves for use in the defense/marine, power energy, aerospace, process, and commercial industries. Since 1987, BNL has earned a reputation for dependability and excellence. Our product range includes two-way and three-way ball valves (manual, pneumatic, and electric actuated), In-Line check valves, and Twinline check valves. Working with our customers, we provide solutions to your non-standard requirements. Our innovation, quality, and service will exceed your expectations.

At BNL, the customer comes FIRST 100% of the time.

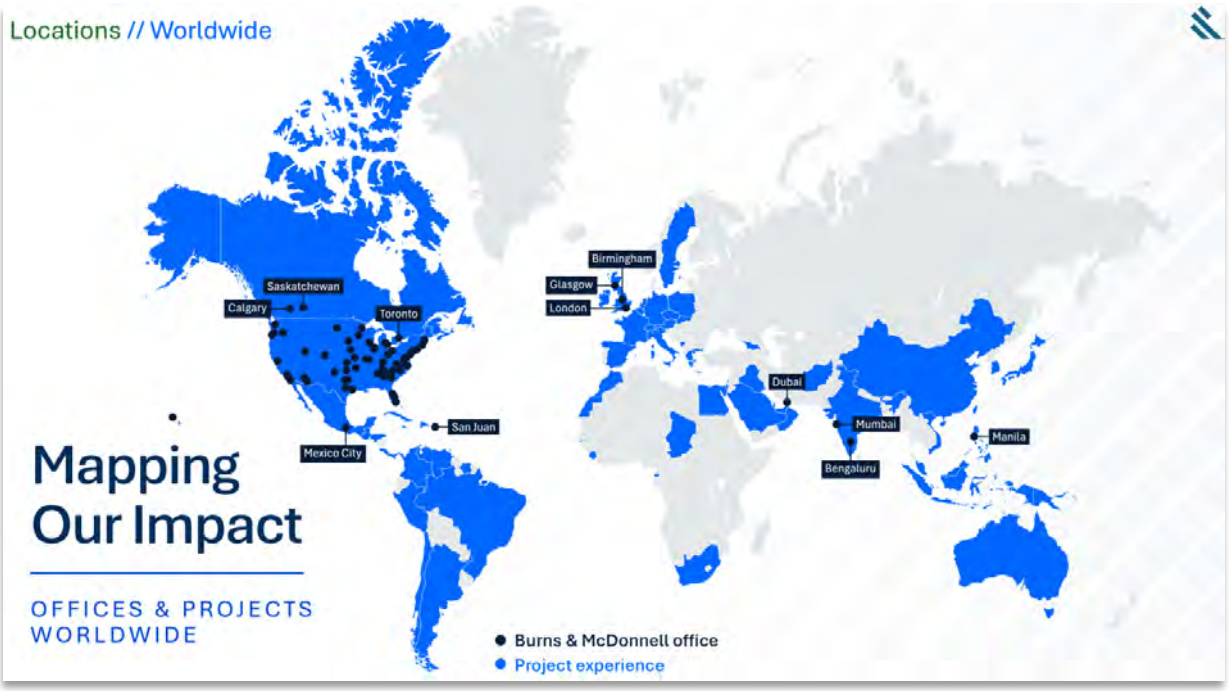
Location: Vernon, CT
Founded: 1987
Principal/CEO: Christopher Bain
Major Customers: All US Nuclear Power Plants
Federal Engagement: NRC
Preferred Point of Contact: Savannah Trubisz | Savannah.trubisz@bnl.com | 860-870-6222

https://www.bnl.com

BURNS & MCDONNELL

ADVANCED NUCLEAR | SUPPLIER

Burns & McDonnell is a worldwide leader in engineering and construction with over 12,000 employee-owners in over 75 offices across the U.S. and throughout the world. At Burns & McDonnell, our engineers, architects, scientists, and construction professionals do more than plan, design and implement. With a mission that remains unchanged since our founding in 1898 - Make Our Clients Successful - our team partners with you on the toughest challenges, constantly working to make the world an amazing place.



Location: Kansas City, MO; Other worldwide offices
Founded: 1898
Principal/CEO: Leslie Duke
Major Customers: X-energy, BWXT, Nuclear Operating Plant Fleet, Other Confidential Clients
Federal Engagement: DOE, DOD, NRC, Other
Preferred Point of Contact: Glenn Neises | gneises@burnsmcd.com

https://www.burnsmcd.com

BWX TECHNOLOGIES, INC.

ADVANCED NUCLEAR | SUPPLIER

BWXT has been involved in the nuclear industry since its beginning. As a federal contractor, BWXT provides nuclear components and fuel for the U.S. Navy's submarine and aircraft carrier fleet. Commercially, BWXT manufactures heavy components for CANDU reactors, provides services for the U.S. and Canadian nuclear markets, and provides engineering and design capabilities for advanced reactor technologies and fuel.

Location: Lynchburg, VA
Founded: 1857
Principal/CEO: Rex D. Geveden
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, Other
Preferred Point of Contact: John Dobken | jcdobken@bwxt.com | 202-641-3013

https://www.bwxt.com/

CAROLINA FABRICATORS, INC.

ADVANCED NUCLEAR | SUPPLIER

Carolina Fabricators is a small business located in West Columbia, SC that specializes in the fabrication, welding, and machining of products and systems for DOE and the Commercial Nuclear industry while following our strict quality assurance program that is fully compliant with ASME NQA-1, 2008 Edition, Part I, as amended by ASME NQA-1a-2009, including applicable more stringent requirements of previous editions; 10CFR71 Subpart H; 10CFR50 Appendix B; and 10CFR Part 21, along with ASME Section VIII Boiler and Pressure Vessel Code.

We have an extensive history of manufacturing components, weldments, and assemblies for our commercial nuclear utilities, advanced reactors, and our DOE sites. We manufacture a variety of products including (but not limited to) tanks, liners, containers, pressure vessels, piping, pipe spools, telescoping piping assemblies, precision machined components, process skids, fissile carts, source vials, pipe supports, assemblies, rigging/lifting equipment, frames, AISC structural steel items (stairs, platforms, embeds, handrails, etc.), and many other custom fabricated metal products along with supporting commercial and safety related material supply.

Location: West Columbia, SC
Founded: 1992
Principal/CEO: Brad Hughes
Major Customers: SRNS, SRMC, Bechtel/Hanford, Framatome, Orano, Energy Solutions, BEA/INL, CNS Pantex, Y-12, UPF, Westinghouse, WMG, Atkins
Federal Engagement: DOE, GAIN, NRC, NASA
Preferred Point of Contact: Patrick Halligan | phalligan@carolinafab.com | 803-383-2033

https://carolinafab.com

CENTRUS TECHNICAL SOLUTIONS

ADVANCED NUCLEAR | SUPPLIER

Centrus Technical Solutions provides a one-stop shop for meeting the advanced nuclear industry's manufacturing and fuel design needs. Based on our experience with nuclear fuel, multi-physics modeling, engineering, design, advanced manufacturing, and project management, we can assist with the design and manufacture of critical components as well as the business planning, design, and licensing of facilities to produce new fuels. From design and engineering to NQA-1 compliant manufacturing, Centrus Technical Solutions is your trusted, full-service partner.

Location: Oak Ridge, TN
Founded: 1998
Principal/CEO: Larry Cutlip (Vice President Field Operations)
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, NRC, Oak Ridge National Laboratory
Preferred Point of Contact: Dan Leistikow | leistikowd@centrusenergy.com

https://www.centrusenergy.com/

CERAMIC TUBULAR PRODUCTS

ADVANCED NUCLEAR | SUPPLIER

Ceramic Tubular Products develops and supplies very high temperature ceramic tubes and materials for existing and future nuclear and solar thermal applications.

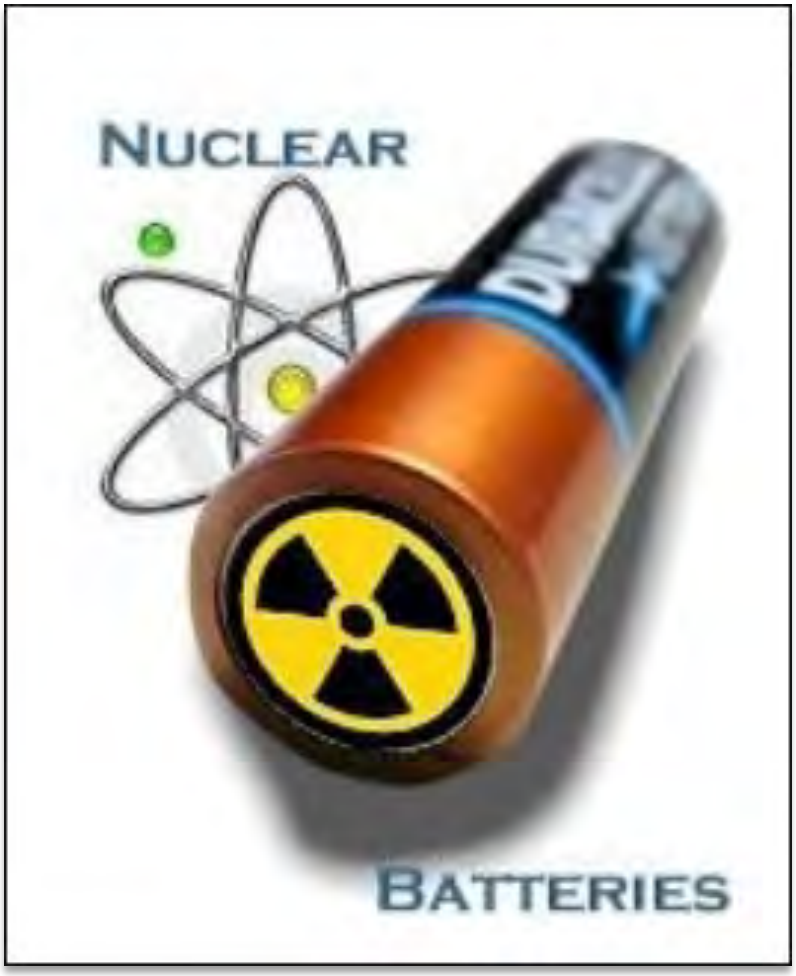
Location: Lynchburg, VA
Founded: 2006
Principal/CEO: Jeffrey Halfinger
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Jeffrey Halfinger | 424-239-1979

https://www.ctp-usa.com/

COMPETITIVE ACCESS SYSTEMS, INC.

ADVANCED NUCLEAR | SUPPLIER

Competitive Access Systems (CAS), Inc. develops self-recharging nuclear battery technologies.

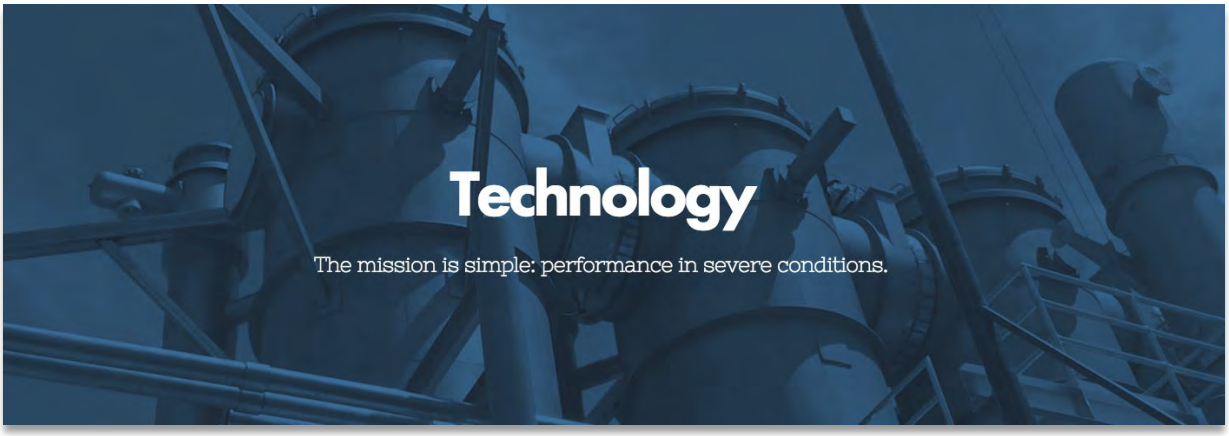


Location: Wylie, TX
Founded: 1996
Principal/CEO: Eric Delangis
Major Customers: Non-disclosed
Federal Engagement: Non-disclosed
Preferred Point of Contact: Linda Delangis | ldelangis@neukenergy.com

COMPREX, LLC

FinRex® and ShimRex® Technologies

CompRex, LLC designs custom compact heat exchangers and compact heat exchange reactors for a wide range of chemical process applications where efficient heat transfer is critical.



ADVANCED NUCLEAR | SUPPLIER

Location: De Pere, WI
Founded: 2014
Principal/CEO: Zhijun Jia
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Zhijun Jia | Zhijun.jia@comprex-llc.com

https://www.comprex-llc.com

CONCURRENT TECHNOLOGIES CORPORATION

Concurrent Technologies Corporation (CTC) is recognized as one of the world's premier nonprofit applied scientific research and development organizations for the creation and implementation of advanced manufacturing technologies. The skills and processes developed at CTC are leveraged by the Center for Advanced Nuclear Manufacturing (CANM) to benefit both the emerging SMR/AR industry and the legacy reactor fleet.

Location: Johnstown, PA
Founded: 1987
Principal/CEO: Edward J. Sheehan, Jr.
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Kevin Merichko | canm@ctc.com

https://www.ctc.com/

CURTISS-WRIGHT

ADVANCED NUCLEAR | SUPPLIER

Curtiss-Wright has supported the commercial nuclear power industry since its inception. We continue to make plants safer, more efficient, and more reliable across the globe. With more than 60 years of experience in power generation, we have significantly broadened our product offerings in the commercial nuclear power market over time - through acquisition, innovation, and organic growth. Our offerings include everything from commercial off-the-shelf seals to custom engineered control rod drive mechanisms, from analog instruments to FPGA-based Digital Control Systems.

Our Quality Assurance programs are maintained at the highest standards of excellence in support of rigorous industry requirements. We meet 10CFR50, Appendix B; ASME NQA-1; and ASME Sections III and XI. We possess ASME N, NPT, NR, NS, UV, and VR Certificates, including Material Organization (QSC-614) capabilities. Our quality programs meet the requirements of countries such as Canada, France, China, and Russia, and are NUPIC and NIAC audited.

Today, Curtiss-Wright has installations at hundreds of nuclear plants in over 25 countries worldwide.

Location: Global
Founded: 1929
Principal/CEO: Lynn Bamford, CEO
Major Customers: Exelon, Entergy, TVA, KHNP, OPG, Bruce Power, Bechtel
Federal Engagement: DOE, DOD, NRC
Preferred Point of Contact: Gary Wolski | gwolski@curtisswright.com

https://www.cwnuclear.com/

DC FABRICATORS, INC.

ADVANCED NUCLEAR | SUPPLIER

DC Fabricators manufactures heat exchange equipment for the power generation and defense industries. DCF specializes in small to medium size cylindrical and rectangular condensers and heat exchangers for industrial and cogeneration applications, geothermal power plants, large main station condensers (to over 500,000 sq.ft.), process heat exchangers with pressures over 2,000 psi, and nuclear power systems. DCF's backs up its manufacturing capabilities with complete engineering analysis and design capabilities that conform to ASME Code, TEMA Standards, HEI Standards for Steam Condensers, and International Codes and Standards.

Location: Florence, NJ
Founded: 1993
Principal/CEO: Gary Butler
Major Customers: US Navy, General Dynamics, Bechtel, Huntington Ingalls, Talen Energy, NPPD, Southern Illinois Power, Eastman Chemical
Federal Engagement: DOE, DOD
Preferred Point of Contact: Derrick Phillips | dphillips@dcfab.com | 609-499-3000 ext. 225

https://www.dcfab.com/

DUBOSE NATIONAL ENERGY SERVICES

ADVANCED NUCLEAR | SUPPLIER

DuBose National Energy Services, Inc (DNES), an ASME certificate holder since 1977, proudly offers quality products with exceptional (24/7/365) service. DNES carries one of the largest, most diversified inventories of nuclear qualified material in North America. DNES stocks sheet, plate, bar, pipe, fittings, flanges, structural shapes, tubing, fasteners, weld filler metal and Unistrut® metal framing products. DNES supports common carbon and alloy steel to highly corrosive-resistant stainless; nickel alloys to aluminum, copper and bronze. In addition, DNES offers many value-added services from machining, fabricating, sawing, burning, cleaning, blasting, painting, heat treating, in-house testing (including NDE), and reverse engineering. DNES products and services are offered under a comprehensive quality program based on ASME Section III, NCA/ WA-4000 and Division 5 Class A & B accreditation for NA, NPT and NS activities; 10CFR50 Appendix B; ASME NQA-1; ANSI N45.2; CSA N299.2/3; & MIL-I-45208A. DNES is also accredited under AISC and AWS, as well as ASME Section VIII (Pressure Vessels, Division 1 – U & R Stamps). DNES is NUPIC and NIAC Audited.

NPT NA NS U

Location: Clinton, NC
Founded: 1990
Principal/CEO: Richard Rogers, President | Beau Laslo, General Mgr | Jashua Grimm, Director of Quality
Major Customers: USA: All nuclear utilities, DOE, DOD, National Labs and ~300 OEM's/Fabricators/ EPC's who support USA nuclear programs.
Canada: All nuclear utilities, National Labs and ~75 Canadian OEM's/Fabricators/EPC's who support Canada's nuclear programs.
Worldwide: Several Utilities and OEM's/Fabricators/EPC's nuclear programs.
Federal Engagement: DOE, DOD
Preferred Point of Contact: Beau Laslo | beau.laslo@dubosenes.com | 910-590-2151

https://www.dubosenes.com/

ADVANCED NUCLEAR | SUPPLIER

ED FAGAN INC.

Distributor and manufacturer of Controlled Expansion, Magnetic and Refractory Metals and Alloys. Ed Fagan Inc. has facilities in Franklin Lakes, NJ and Los Alamitos, Ca.

If you need specialty metals or special purpose alloys for Aerospace/ Aviation, Defense, Electronics, Ceramic, Heat Treating, Magnetic, Medical, Lighting, Optical, Telecommunications, or other high-technology, industrial application, call Ed Fagan Inc.

EFI has supplied specialty metals, alloys, and hard-to-locate materials to these markets since 1965. We have a large comprehensive inventory of Controlled Expansion Alloys, Electrical/Electronic Grade Nickel; as well as Soft Magnetic Alloys, and Refractory Metals and Alloys. We stock the highest quality materials available in forms such as: Bar, Rod, Sheet, Plate, Strip, and Wire… from the highest quality mills such as VDM Metals GmbH and Carpenter Technology Corp. And, we stock these materials in many gauges, widths/lengths, and conditions for immediate delivery.

Location: Franklin Lakes, NJ
Founded: 1965
Principal/CEO: Ed Fagan, President
Major Customers: Argonne National Laboratories, Sandia National Laboratories, Lawrence Livermore National Laboratories, General Electric
Federal Engagement: DOE, ARPA-E, NRC
Preferred Point of Contact: Richard Manberg | richard@edfagan.com | 201-891-4003
Shant Simonian | shant@edfagan.com | 562-431-2568

https://www.efinemetals.com/

EMPYREAN

ADVANCED NUCLEAR | SUPPLIER

Premiere Customized Staffing Solutions for the Nuclear Energy Industry. Founded in 2000, Empyrean takes tremendous pride in consistently delivering top talent in the nuclear industry. We specialize in working closely with our clients to understand the exact need, and strive to have the right individual placed in the shortest time possible. Empyrean is a member of the Consulting Solutions family of companies.

Location: Jacksonville, FL
Founded: 2000
Principal/CEO: Michael Werblun, President and CEO, Consulting Solutions
Major Customers: Southern Nuclear, NuScale, GE Hitachi, Duke Energy, Westinghouse, Songs Decommissioning Solutions, SIMCO
Federal Engagement: DOE
Preferred Point of Contact: Valerie Reed | vareed@empryeanonline.com | 412-528-1588

https://empyreanonline.com/

ENERCON

ADVANCED NUCLEAR | SUPPLIER

ENERCON

Excellence—Every project. Every day.

ENERCON is a multi-discipline engineering and environmental firm focused on empowering our people and partnering with our clients to support the safe and efficient production, delivery and use of energy. As the world moves towards more sustainable, energy-efficient infrastructure, ENERCON actively works to advance the nuclear industry through engineering support for advanced and small modular reactors (SMR). Since ENERCON was formed in 1983, ENERCON has been one of the largest engineering firms supporting the U.S. commercial and federal nuclear marketplace. ENERCON is an industry leader in providing engineering, licensing, and environmental services to numerous advanced nuclear projects.

ENERCON has performed site and nuclear technology selection studies, developed design certification applications, license applications, and environmental reports for advanced nuclear. ENERCON also has substantial engineering experience supporting advance nuclear clients with plant integration engineering, system and component engineering, codes and standards, PRA, and safety analysis. Our long list of satisfied clients has been built on our solid reputation as a premier provider of high quality, cost effective services.

Location: Kennesaw, GA
Founded: 1983
Principal/CEO: Robert Bryan
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Jay Basken, P.E. | jbasken@enercon.com | 770-880-9351
Nathan Jackson, P.E.| njackson@enercon.com | 985-778-6301

https://www.enercon.com/

ENGINEERING MECHANICS CORPORATION OF COLUMBUS

ADVANCED NUCLEAR | SUPPLIER

Engineering Mechanics Corporation of Columbus (Emc^2) is an employee-owned engineering research and development consulting company focused on materials, structural integrity and reliability of complex systems. We provide high quality engineering services and products that are innovative and responsive to our clients' schedule and budgetary requirements. Emc^2 nurtures creativity, continually invests in staff development and new technologies, and collaborates with our clients to assemble the best combination of experts to solve critical problems for the commercial and governmental communities we serve. We have extensive experience in high temperature computational damage and fracture modeling along with extensive test facilities. We helped develop the NRC's xLPR probabilistic leak before break code.

Since our founding in the last century, Emc^2 has always taken pride in our leadership role on various Codes and Standards setting committees. We remain committed to our mission to provide experimental, computational, reliability and analytical solutions to client needs while also supporting societal goals of insuring safe operations of systems of all sizes and complexity.

Engineering Mechanics Corporation of Columbus Laboratory Facilities

Engineering Mechanics Corporation of Columbus At Sunset

Location: Columbus, OH
Founded: 1998
Principal/CEO: Gery Wilkowski , CEO, F.W. Brust, Principal
Major Customers: Energy Industry (US NRC, Department of Energy, US Navy Nuclear, National Aeronautics and Space Administration, Department of Transportation, Heavy Industry, Medical Industry, International Nuclear Regulators.
Federal Engagement: DOD, Navy, NASA
Preferred Point of Contact: Frederick (Bud) Brust | bbrust@emc-sq.com | 614-459-3200

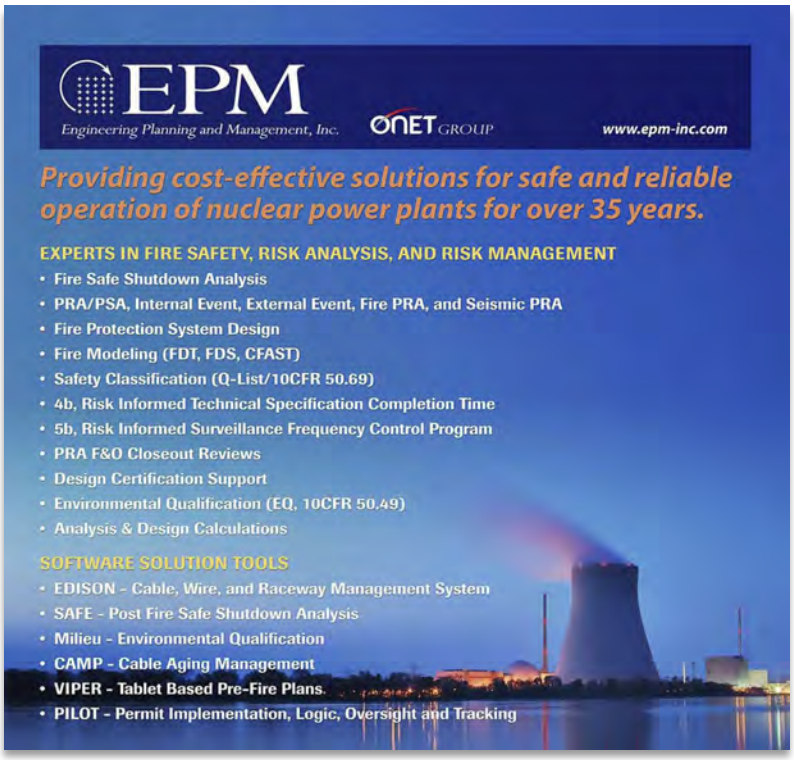
https://www.emc-sq.com/

ENGINEERING PLANNING and MANAGEMENT

ADVANCED NUCLEAR | SUPPLIER

EPM an ONET company
Engineering Planning and Management, Inc.

EPM is a multi-discipline, ASME NQA-1:2015 and ISO 9001:2015 compliant, engineering company specializing in fire protection and fire modeling, probabilistic risk assessment (PRA), safe shutdown / electrical separation analysis, chemical process safety, and software development. Our cross-functional teams allow EPM to provide integrated specialty engineering and software solutions to assist our U.S. and international customers with regulatory compliance, design certification, risk management, and process efficiency at their facilities. We have built a reputation as a well-respected engineering services and software provider to U.S. and international customers for over 35 years.



Location: Framingham, MA
Founded: March, 1980
Principal/CEO: Robert Kalantari
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC
Preferred Point of Contact: Alan Jelalian | ahj@epm-inc.com | 508-532-7131

https://www.epm-inc.com/

EXCEL SERVICES CORPORATION

ADVANCED NUCLEAR | SUPPLIER

EXCEL Services Corporation (EXCEL) has vast domestic and global technical, licensing, and regulatory experience, working with multiple regulatory bodies and the IAEA. EXCEL has worked with numerous nuclear plant designers and operators to develop and implement technical, licensing, and regulatory strategies for all phases of the nuclear plant life cycle, from design certification, initial licensing, license renewal, to decommissioning. EXCEL provides total nuclear infrastructure setup for new nuclear build countries. EXCEL combines a broad and deep knowledge of the industry with world-class technical expertise, problem-solving consultants, and cost saving mechanisms to create high impact solutions to solve difficult challenges faced by energy production and other critical infrastructure clients.

Location: Rockville, MD
Founded: 1985
Principal/CEO: Donald R. Hoffman
Major Customers: EXCEL has supported all the US nuclear utilities and over 31 countries worldwide.
Federal Engagement: DOE, NRC
Preferred Point of Contact: Jim Andersen | jim.andersen@excelservices.com | 301-984-4400

https://www.excelservices.com/

EXYN TECHNOLOGIES

ADVANCED NUCLEAR | SUPPLIER

Exyn Technologies is pioneering autonomous aerial robot systems for complex, GPS-denied environments. The company's full-stack solution enables flexible deployment of single or multi-robots that can intelligently navigate and dynamically adapt to complex environments in real-time. Exyn's autonomous robotic solution can integrate specialized sensors (temperature, radiological, IR, visual camera) to record data in dangerous or conventionally inaccessible locations. That data will be placed / visualized / georeferenced in 3D space onto of the survey grade point cloud for easy consumption and analytics.

Location: Philadelphia, PA
Founded: 2014
Principal/CEO: Nader Elm
Major Customers: Mining Space: Dundee Precious Metals, Vale, etc.
Nuclear: Demonstration of Technology with EPRI
Federal Engagement: Other
Preferred Point of Contact: https://www.exyn.com/about/contact | 215-999-0200

https://www.exyn.com/

F&J SPECIALTY PRODUCTS, INC.

ADVANCED NUCLEAR | SUPPLIER

ISO9001:2015 certified manufacturer of traditional and microprocessor controlled air sampling and airflow calibration instruments, air sampling accessories and consumables. Products include portable and fixed-station low volume and high volume air samplers, PAS, tritium and C-14 systems. Consumables include charcoal and silver zeolite radioiodine collection cartridges and particulate filter media.

Location: Ocala, FL
Founded: 1979
Principal/CEO: Frank M. Gavila
Major Customers: Non-disclosed
Federal Engagement: DOE, EPA, Other
Preferred Point of Contact: fandj@fjspecialty.com | 352-680-1177

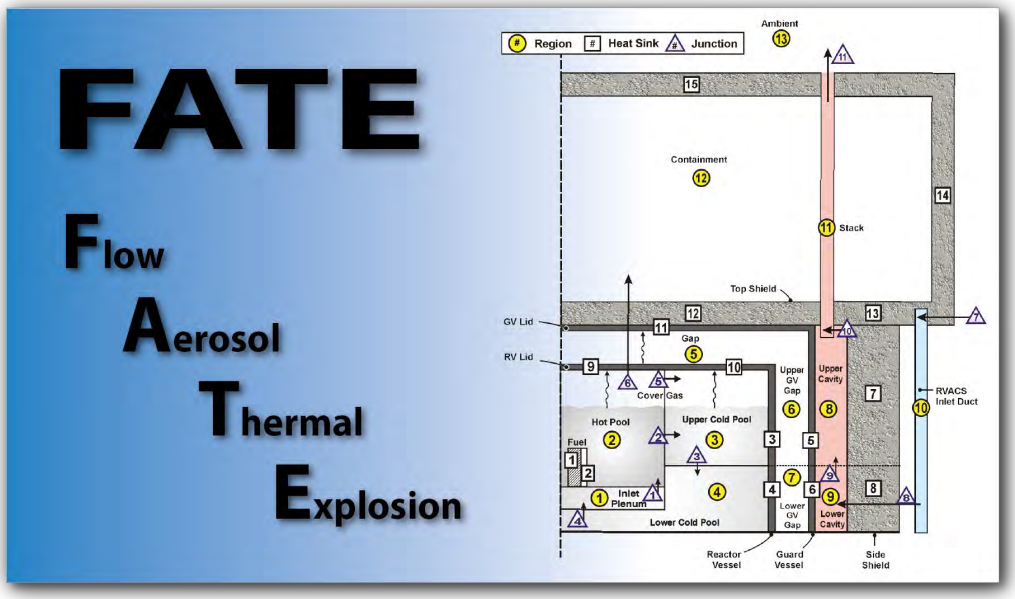
https://www.fjspecialty.com/

ADVANCED NUCLEAR | SUPPLIER

FAUSKE & ASSOCIATES, LLC

FAUSKE & ASSOCIATES, LLC
WORLD LEADER IN NUCLEAR AND CHEMICAL PROCESS SAFETY

FAI specializes in modeling and analyzing both power and non-power nuclear facilities, including light water and liquid metal cooled reactors (LMRs), spent fuel, legacy waste processing, and storage facilities. FAI developed FATE, a facility and process modeling code originally created to support design and safety analyses of spent fuel, tank waste, vitrification, and special materials at DOE's Hanford site. Recently, under a GAIN voucher, FATE was coupled with a LMR accident analysis code to provide mechanistic source term analysis capability for licensing purposes.



Location: Burr Ridge, IL
Founded: 1980
Principal/CEO: John Fasnacht
Major Customers: Westinghouse, Kairos, Sellafield, Hanford, Korea Atomic Research Institute (KAERI)
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Jim Burelbach | burelbach@fauske.com

https://www.fauske.com/

FISHER CONTROLS

Fisher valve and instrument technologies are born from Emerson's passion to increase your process safety and efficiency, by defining the industry with more than 140 years of trusted innovations and forging the future of flow control solutions. We know the consequences of process failure are great, that's why we have an unwavering commitment to standards and processes that ensure innovative and reliable product designs. Many years from now, as the Fisher™ brand is put onto products, users will continue to know it stands for integrity.

Location: Marshalltown, IA
Founded: 1880
Principal/CEO: Kevin G. Meyer, Principal | Lal Karsanbhai, CEO
Major Customers: All sanctioned nuclear utilities across the globe
Federal Engagement: NRC
Preferred Point of Contact: Michael Hagen | Michael.hagen@emerson.com | 641-754-3355

https://www.fisher.com

ADVANCED NUCLEAR | SUPPLIER

FISONIC ENERGY SOLUTIONS - POWER SYSTEMS DIVISION

Fisonic Energy Solutions designs pumping systems for power plants that require only heat to operate (no electricity), and use waste heat as a power source where possible.

Location: Waltham, MA
Founded: 2016
Principal/CEO: Ed Pheil, CTO
Major Customers: Non-disclosed
Federal Engagement: Other
Preferred Point of Contact: Ed Pheil | ed.pheil@fisonic.us | 212-732-3777

https://www.fisonic.us/

FLUID COMPONENTS INTERNATIONAL, LLC

ADVANCED NUCLEAR | SUPPLIER

Since 1978, FCI has designed and produced level, flow and temperature instruments that improve plant performance, protect equipment and maintain vital processes. Our unique expertise in the nuclear power industry delivers valuable time and cost savings during both construction and operational phases.

FCI delivers products that meet nuclear industry requirements from HVAC and balance of plant equipment, to radwaste systems, to inside containment harsh environment flow and level applications. Products stand ready for harsh environment and severe accident conditions and are fully qualified per IEEE323, IEEE344, IEC60780, and RCC-E.

FCI has analog and digital level and flow instrumentation that match the performance, reliability, complexity, and cost that the applications require. FCI Quality Assurance meets 10CFRAppendix B and complies with 10CFRPart21.

Location: San Marcos, CA
Founded: 1964
Principal/CEO: Randy Brown
Major Customers: Westinghouse, Bechtel, Black and Veatch, Fluor, Framatome, Korea Hydro Electric Power Company, all major US Nuclear Power Operators
Federal Engagement: Other
Preferred Point of Contact: Nathan Obermiller | nuclear@fluidcomponents.com | 760-736-6233

https://www.fluidcomponents.com/products/

FLUOR

Fluor is one of the world's largest publicly-traded engineering, procurement, fabrication, construction (EPFC) and maintenance companies, offering integrated solutions for clients' projects. For the past 70 years, Fluor has executed some of the most complex and challenging projects in the nuclear industry.

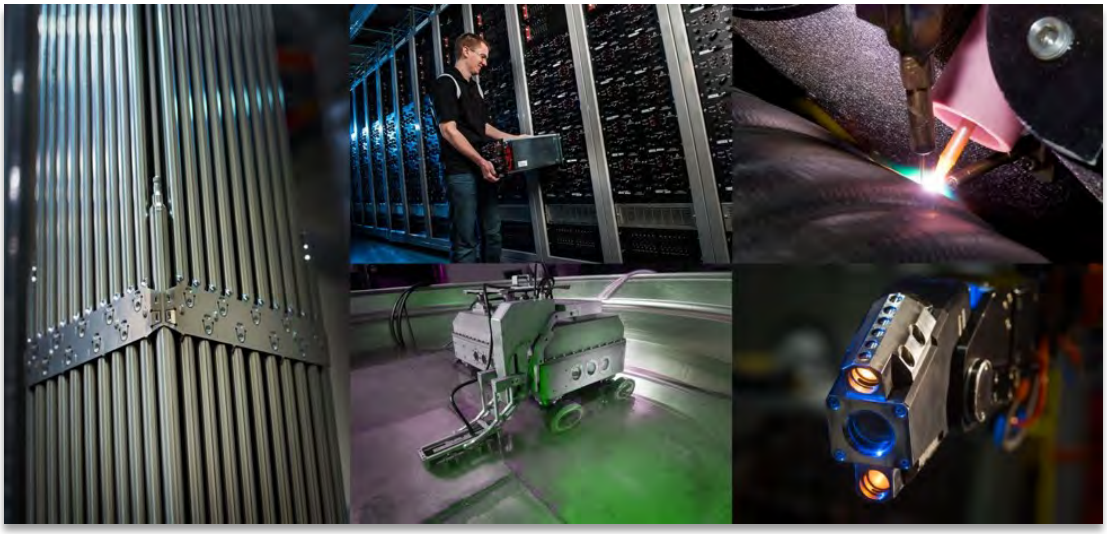
Location: Global
Founded: 1912
Principal/CEO: Jim Breuer
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, Other
Preferred Point of Contact: Kathleen Posteraro | kathleen.posteraro@fluorgov.com | 412-901-0558

https://www.fluor.com/

FRAMATOME

ADVANCED NUCLEAR | SUPPLIER

Framatome is a major international player in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures, and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services. Framatome is innovating to design the reactors of tomorrow. Our activities include reactor design, systems engineering, SMR fuel development, and industry counsel to help progress licensing and commercialization of advanced reactors in the United States.



Location: Nationwide
Founded: 1989
Principal/CEO: Gary Mignogna
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Darryl Gordon | darryl.gordon@framatome.com | 434-832-5199

https://www.framatome.com/

GEI CONSULTANTS, INC.

ADVANCED NUCLEAR | SUPPLIER

Our multi-disciplined team of engineers and scientists deliver integrated geotechnical, environmental, water resources, and ecological engineering solutions to diverse clientele nationwide. GEI recognizes the need to provide safe, clean, secure, base load electric power to influence our environment and has made a commitment to provide resources to support this need. GEI provides services with a focus on client success by integrating experienced project managers into our clients' team. Our services for nuclear facilities include: Site Characterization/Selection; Seismic Stability and Liquefaction Analysis; Foundation Investigation; Design for Static and Seismic Loading; Vibration Analysis; Excavation Support; Geohydrologic and Hydrologic; Licensing Support; Embankment Design and Rehabilitation; Preparation of Plans and Specifications; Field Instrumentation Installation and Monitoring; Construction Observation and Consultation; Environmental and Ecological Services; and Decommissioning. GEI has had a Nuclear Quality Assurance Manual since 1972 and we provide all our services under a client-audited Quality Assurance Program (QAP) that meets the requirements of 10 CFR Part 50 Appendix B, ASME NQA-1-1994 and ANSI N45.2- 1977. We have firmly established a reputation amongst the industry for achieving excellent results, inspired problem-solving, and outstanding client satisfaction.

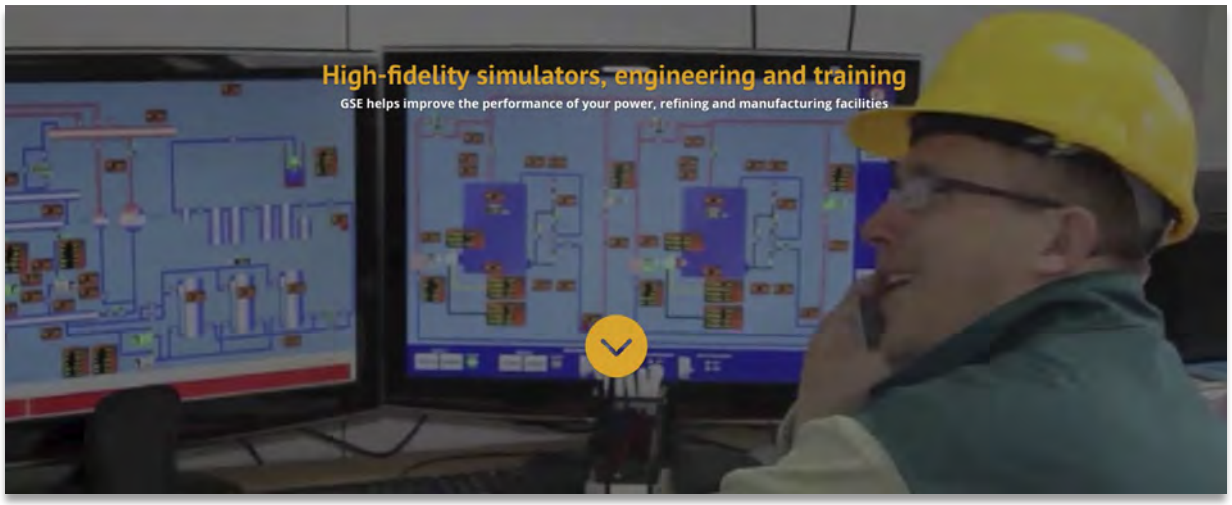
Location: Woburn, MA
Founded: 1970
Principal/CEO: Ron Palmieri
Major Customers: Holtec International, TVA, Entergy, Exelon, Bechtel, and Orano
Federal Engagement: DOE, NRC, USACE, EPA, DOJ, TVA
Preferred Point of Contact: Chad R. Conti | cconti@geiconsultants.com
Leslie A. Lombardo | llombardo@geiconsultants.com

https://www.geiconsultants.com/

GSE PERFORMANCE SOLUTIONS, INC.

ADVANCED NUCLEAR | SUPPLIER

GSE is the world leader in simulation systems and solutions for the nuclear power industry. GSE's technology allows the end user to conduct engineering and design studies, conduct "what if" analyses and train personnel to exacting standards. GSE's technology is critical for customers to improve load factors, reduce operational risk and lower operating costs.



Location: Sykesville, MD
Founded: 1994
Principal/CEO: Kyle Loudermilk
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Jay Umholtz | jay.umholtz@gses.com

https://www.gses.com/

GUTOR ELECTRONIC LLC

ADVANCED NUCLEAR | SUPPLIER

Gutor Electronic LLC is the low-cost, high-quality supplier of Environmentally Qualified, Safety-Related emergency and back-up electrical power; to include Battery Chargers, Inverters, and UPS systems.

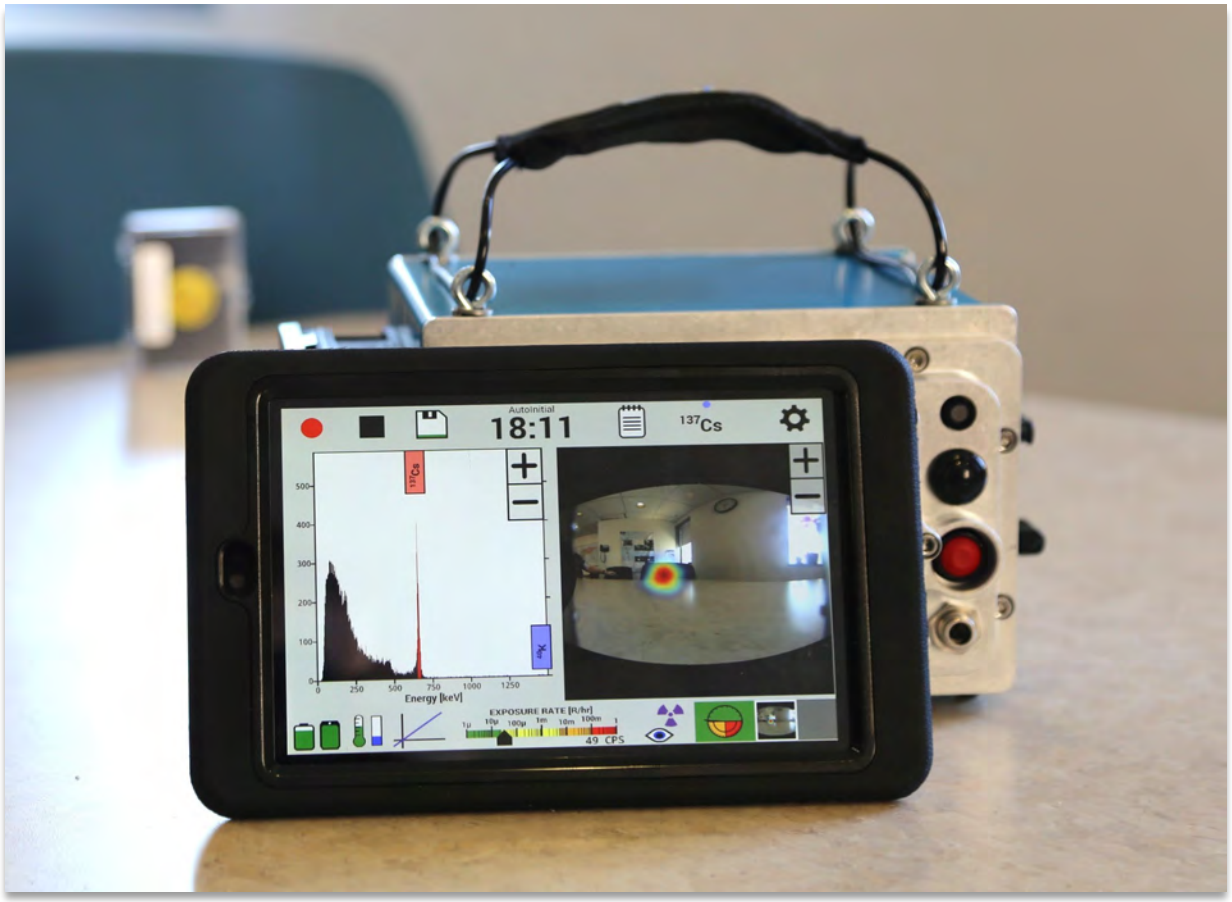
Location: Houston, TX
Founded: 1946
Principal/CEO: Finn Jorgensen
Major Customers: Bruce Power, TVA, Xcel Energy, Entergy, Constellation, INL, Hanford, Duke Energy, Southern Nuclear, Dominion
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Mike May | mike.may@gutor.com | 865-230-3582

https://www.gutor.com

H3D, INC.

ADVANCED NUCLEAR | SUPPLIER

H3D offers the world's highest-performance imaging spectrometers. Quickly identifying and localizing gamma-ray sources with a single measurement, H3D is revolutionizing how measurements are performed. H3D detectors are used in over half of U.S. nuclear power plants.



Location: Ann Arbor, MI
Founded: Non-disclosed
Principal/CEO: Willy Kaye
Major Customers: Non-disclosed
Federal Engagement: DOE
Preferred Point of Contact: Andy Boucher | andy@h3dgamma.com | 734-661-6416

https://www.h3dgamma.com/

HANSELL TIERNEY, INC.

ADVANCED NUCLEAR | SUPPLIER

HansellTierney

Hansell Tierney, Inc. (certified women-owned business) is a full-service recruiting and staffing firm with a specialty in staffing both contractors/consultants and direct-hire staff for key players in the nuclear industry. We are currently supporting the growth and development of reactor projects that are part of the Advanced Reactor Demonstration Program (ARDP) as well as Network for Fusion Energy (INFUSE) program.

Hansell Tierney has developed a national candidate pipeline of specialized engineering and project talent specifically in the nuclear field. We understand the complex and novel nature of reactor design and development, and can successfully source, attract, and place the nation's top talent.

certified WBENC WOMEN'S BUSINESS ENTERPRISE

Examples of roles that we have placed are the following:

- Document Control Specialist
- Maintenance and Technical Training Instructor
- Training Coordinator
- Nuclear Operations Procedure Writer
- Buyer
- Design Control Process Engineer
- Accounts Payable Specialist
- Requirements Management Engineer
- Physical Security Systems Architect
- Instrumentation and Control System Design Engineer
- Cyber Security Systems Architect
- Plant Integration Engineer - Plant Layout
- Principal Seismic Probabilistic Risk Assessment (PSPR) Engineer
- Software Quality Assurance Engineer
- Process Integration Engineer
- Mechanical System Design Engineer
- System Transients Analysis Engineer
- Project Coordinator
- Verification and Validation (V&V) Engineer
- Training Building and Simulator Project Manager
- Senior Fuel Handling System Design Engineer
- Senior Fuel Handling Mechatronics Engineer
- DevOps Engineer
- Core Mechanical Analysis and Methods Engineer
- Procurement Project Coordinator
- Nuclear Licensing Engineer
- Senior Administrative Assistant
- Project Configuration Manager
- Administrative Assistant
- Helpdesk Technician
- Reactor Core and Component System Design Engineer
- Structural Analysis Engineer, Reactor
- System Design Engineer, Fluid Systems
- System Design Engineer, Sodium Processing System
- Instrumentation and Controls Engineer
- System Transients Methodology Engineer
- Nuclear Methods Software Engineer
- Plant Analysis Integration Engineer - Safety Analysis, PRA
- Senior Fuel Handling Test Design Engineer
- Operations Training Instructor
- Sr. Project Scheduler
- Plant Integration Systems Engineer
- Structural Analysis Engineer, Reactor
- Stress Analysis Engineer, Fuel Handling
- Engineering Coordinator
- Mechanical Codes and Methods Engineer
- Senior Fuel Handling Design Engineer- Dry Storage
- Senior Integrated Plant and Structures Engineer – Seismic Integration
- Sr. Mechanical Design Engineer
- Electrical Engineer
- Sr. Integrated Plant & Structures Engineer, Seismic Integration
- Senior Core Mechanical Structural Analyst
- Plant Integration Radiological Engineer
- Corporate Facilities Assistant
- Business Intelligence Analyst
- Recruiting Coordinator
- Recruiter
- Electrical System Design Engineer
- Financial Analyst
- Engineering Project Coordinator
- Contract Specialist
- System Integration Engineer
- Network Engineer
- Senior Software Engineer

Location: Seattle, WA

https://hanselltierney.com/

Founded: 2001

Principal/CEO: Jill Hansell McCune | Carolyn Tierney

Major Customers: Non-disclosed

Federal Engagement: DOE

Preferred Point of Contact: David Yount | dyount@hanselltierney.com | 206-377-9840

The HARTFORD STEAM BOILER INSPECTION and INSURANCE COMPANY

ADVANCED NUCLEAR | SUPPLIER

HSB offers a wide range of inspection services for nuclear components and nuclear power plants. We are the world's largest Authorized Inspection Agency accredited by the American Society of Mechanical Engineers (ASME). HSB is widely recognized as an industry leader and pacesetter for ASME Authorized Inspection Agencies.

We help clients around the world anticipate the impact of ASME and National Board Inspection Code requirements on their operations. Our experienced inspection professionals will help you identify and eliminate flaws and defects that increase your liability and operating costs while helping you maintain the highest levels of pressure equipment integrity. We also provide the most extensive inspection coverage in the United States and many other countries around the world.

HSB can help organizations attain accredited certification for their Management System in ISO 9001 Quality Management System, ISO 19443 Quality Management System requirements for organizations in the nuclear energy sector supply chain, ISO 14001 Environmental Management System, and ISO 45001 Occupational Health and Safety Management System.

Services Provided:

- Authorized Nuclear Inspection Services
- Authorized Nuclear In-service Inspection Services
- Spent Fuel Services (Inspection, surveillance and auditing services)
- Third Party Inspection Services
- ISO Services: ISO 9001, ISO 19443, ISO 14001, & ISO 45001
- Nuclear Quality Assurance Services
- Technical Training for pressure equipment

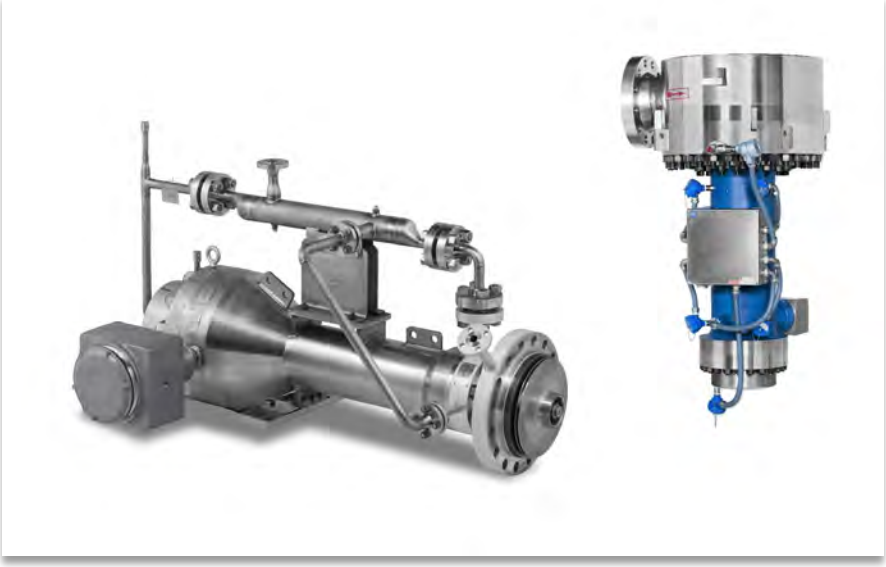
Location: Hartford, CT
Founded: 1866
Principal/CEO: Greg Barats
Major Customers: ASME Nuclear & Non-Nuclear Certificate Holders
Federal Engagement: GAIN, NRC, ASME
Preferred Point of Contact: Michael Fitzgerald | michael_fitzgerald@hsb.com | 612-568-0786

https://www.munichre.com/hsb/en.html

HAYWARD TYLER, INC.

ADVANCED NUCLEAR | SUPPLIER

Design, engineer and manufacture of pumps, motors, vessels, and other process equipment in accordance with ASME Codes and Standards. This includes Section III, Div. 1 and Div. 5. Hayward Tyler combines decades of nuclear pump and vessel operating experience with trained engineers using state-of-the-art computer aided design tools. These tools — including Computational Fluid Dynamics (CFD), rotor dynamics, and Finite Element Analysis (FEA) — enable us to engineer safe and reliable pump, motor, and vessel solutions for advancing nuclear energy technology. Whether your project requires limited scope engineering efforts, or clean sheet design and build of novel pump, motor, and vessel technology, Hayward Tyler has the in-house engineering, manufacturing, and test capabilities to deliver on your unique challenges.



Location: Colchester, VT
Founded: 1970
Principal/CEO: Drew Van Norman
Major Customers: Southern Company, Dominion Energy, Constellation Energy, Korea Hydro & Nuclear Power, TerraPower, Idaho National Labor, Bechtel Marine Propulsion, ITER, Duke Energy
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Jeffrey Belotti, Sales Director | jeffrey.belotti@haywardtyler.com
Office: 802-655-4444 (x)141 | Mobile 201-446-9757

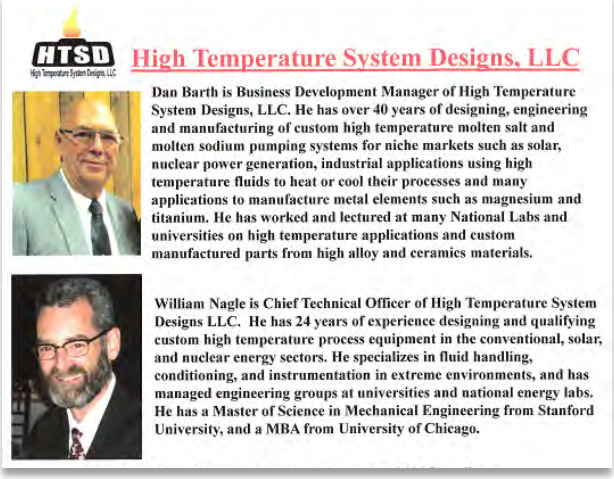
https://www.haywardtyler.com/

HIGH TEMPERATURE SYSTEM DESIGNS, LLC

ADVANCED NUCLEAR | SUPPLIER

High Temperature Systems Designs (HTSD) are an Engineering and Design company with over Seventy years of combined experience. Our team is made up of Daniel Barth, Business Development Manager/Owner, William Nagle, Chief Technical Officer and Danielle Barth, Research Analyst.

HTSD developed and manufactured specialized pumping systems for high temperature and hazardous material applications. Our understanding of designing and manufacturing of such critical equipment comes from working for and with such companies as Rheinhutte Pumps, Nagle Pumps, Friatec Valves, Ensival-Moret Pumps, Sandia National Labs, Rocketdyne, Nexant Bechtel, Oakridge National Labs and many other research facilities and Universities.



High Temperature System Designs, LLC

Dan Barth is Business Development Manager of High Temperature System Designs, LLC. He has over 40 years of designing, engineering and manufacturing of custom high temperature molten salt and molten sodium pumping systems for niche markets such as solar, nuclear power generation, industrial applications using high temperature fluids to heat or cool their processes and many applications to manufacture metal elements such as magnesium and titanium. He has worked and lectured at many National Labs and universities on high temperature applications and custom manufactured parts from high alloy and ceramics materials.

William Nagle is Chief Technical Officer of High Temperature System Designs LLC. He has 24 years of experience designing and qualifying custom high temperature process equipment in the conventional, solar, and nuclear energy sectors. He specializes in fluid handling, conditioning, and instrumentation in extreme environments, and has managed engineering groups at universities and national energy labs. He has a Master of Science in Mechanical Engineering from Stanford University, and a MBA from University of Chicago.

HTSD designed, constructed and commissioned systems at Sandia National Labs, Shell Global Solutions research Facility in Houston, TX, Plataforma Solar de Almera in Spain, ENEA in Italy and many labs scales systems at our universities.

Location: St. John, IN
Founded: 2015
Principal/CEO: Daniel Barth
Major Customers: Sandia National Labs, Oak Ridge National Labs, National Renewable Energy Lab, Argonne National Labs, Shell Oil. TerraPower, ThorCon, Flibe Energy, Hayward Tyler Inc., Powdermet, Nagle Pumps Inc., Rheinhutte Pumps
Federal Engagement: DOE, ARPA-E
Preferred Point of Contact: Daniel Barth | danbarth001@gmail.com |
Direct 219-365-7669, Cell 727-776--7952

http://www.hightemperaturesystemdesigns.com/

HOLTEC INTERNATIONAL

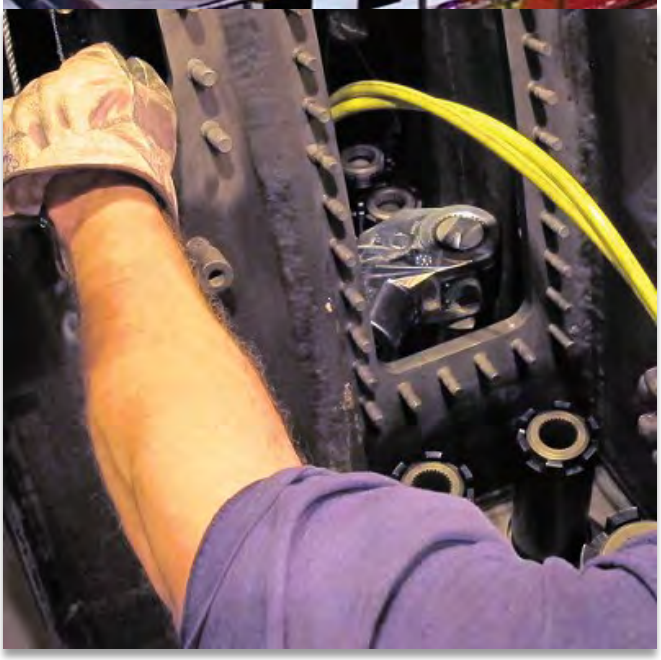
ADVANCED NUCLEAR | SUPPLIER

Holtec's SMR-160 is a robust small modular reactor that delivers 160 MW net electric in a small footprint. SMR-160 is based on pressurized water reactor technology and uses low enriched uranium fuel to provide reliable, affordable and carbon-free energy. The SMR-160 is "walk-away safe," requiring no operator actions during natural disasters, man-made threats, or any of the conditions required to be considered by U.S. regulations. It is the ideal solution for sustaining economic growth worldwide. Since SMR-160 can integrate readily to both established electrical grids or as an independent distributed power source, it is well adapted for both undeveloped and developed countries. SMR160 is truly modular. The majority of the plant's equipment and structures are factory-fabricated and can be delivered to each site in segments. An SMR-160-based site can easily be expanded with additional units to meet current and future demand. Please visit www.smrllc.com for more information.

Location: Camden, NJ
Founded: 1986
Principal/CEO: Dr. Krishna P. Singh
Major Customers: Worldwide
Federal Engagement: DOE, NRC
https://holtecinternational.com/products-and-services/smr/
Preferred Point of Contact: Myron Kaczmarsky / m.kaczmarsky@holtec.com / 856-797-0900 x 3657

HYTORC

ADVANCED NUCLEAR | SUPPLIER



HYTORC is an industry leader specializing in creating safer and more efficient solutions for the most demanding critical bolting applications. With over 50 years of experience, we are dedicated to creating and maintaining the highest quality bolting systems available.

HYTORC's innovative products feature:

- Hands-free and remote operation for worker safety
- Onboard documentation systems for job accountability
- Increased bolt load accuracy for overall joint integrity
- Newest bolting methods
- ASME Section III Class 1 Components

● NO-COST ENGINEERING CONSULTATION ●

Location: Mahwah, NJ
Founded: 1986
Principal/CEO: Eric Junkers
Major Customers: Non-Disclosed
Federal Engagement: Non-Disclosed
Preferred Point of Contact: Joel Siegler | info@hytorc.com | 1-800-FOR-HYTORC | 800-367-4986

https://hytorc.com/

INFORMATION SYSTEMS LABORATORIES

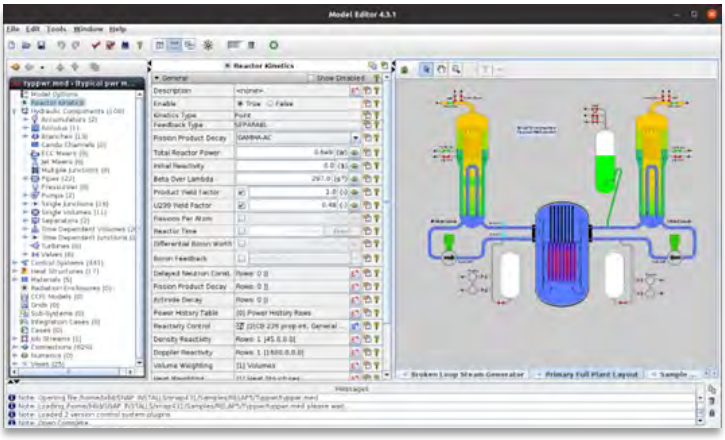
ADVANCED NUCLEAR | SUPPLIER

Information Systems Laboratories, Inc. (ISL) is a small-business, employee-owned technology development corporation that provides comprehensive support to government and commercial customers. We are experts in nuclear reactor design, modeling & simulation, digital engineering, validation of nuclear power systems, development and execution of regulatory strategies, and license application preparation and review.

Typical nuclear analysis performed by ISL focuses on the following areas: thermal -hydraulics, fuel performance, point and 3D neutron kinetics, plant performance, hazards analysis, safety analysis (including operational transient analysis), training simulator benchmarking, control system studies, and radiological analysis.

ISL provides full software lifecycle development and maintenance for nuclear safety analysis codes, currently supporting the maintenance and development of computer software and analysis systems for the U.S. Nuclear Regulatory Commission (NRC) and U.S. Department of Energy (DOE), including RELAP5, RADTRAD, TRACE, and PARCS.

ISL's Symbolic Nuclear Analysis Package (SNAP™) is a suite of integrated applications which facilitates building, editing, executing, and post-processing simulation models for engineering analysis.



Location: San Diego, CA
Founded: 1982
Principal/CEO: Dr. Joseph Guerci, Ph.D.
Major Customers: U.S. NRC, U.S. DOE
Federal Engagement: DOE. NRC, NASDA, DARPA, U.S. DOT, Other
Preferred Point of Contact: Colleen Armoruso | camoruso@islinc.com | 703-448-1116

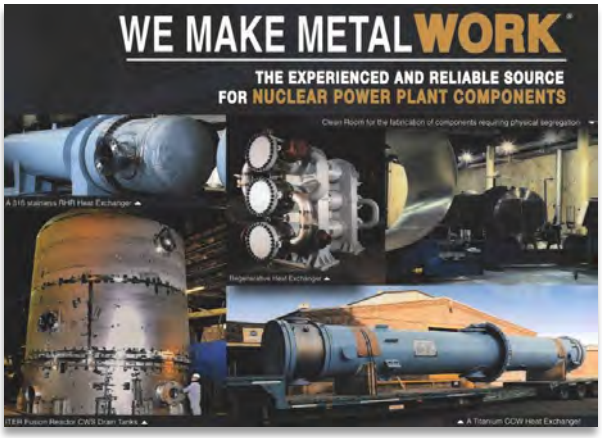
https://www.islinc.com

JOSEPH OAT CORPORATION

ADVANCED NUCLEAR | SUPPLIER

Joseph Oat is a world renowned OEM designer and manufacturer of fabricated ASME Section VIII and ASME Section III / NQA-1 nuclear safety-related heat exchangers, pressure vessels, tanks, canisters/casks, and other products for the Nuclear Power and Radioactive Waste Processing Industries.

Joseph Oat's range of products is quite extensive and our successful nuclear experience is unmatched in the industry. Joseph Oat excels in the supply critical heat exchangers such as regenerative & non-regenerative, residual heat removal (RHR), spent fuel pool coolers, emergency diesel generator (EDG) coolers, lube oil coolers, containment spray, letdown, SG blowdown, and large component cooling water (CCW) heat exchangers. Other product offerings include condensate tanks, air receiver tanks, accumulator vessels, liquid control tanks, surge tanks, containment air coolers, pulsation dampeners, suction stabilizers, oil tanks, fuel tanks, strainers, flow elements - orifice plate & venturi type, flow meters, structural weldments, spent fuel/rad-waste canisters/casks, and other specialty items to nuclear power utilities/ plants, NSSS designers, nuclear A&E/EPC firms, the DOE national laboratories/repositories, and DOD weapons plants.



Location: Camden, NJ
Founded: January 1788
Principal/CEO: Ron Kaplan
Major Customers: DOE (National Laboratories, Repositories, Universities, etc.), GE-Hitachi, Orano, US Nuclear Power Utilities, Westinghouse
Federal Engagement: DOE, GAIN, NRC, Other, DOD
Preferred Point of Contact: John McDonald | j.mcdonald@josephoat.com | 856-371-0009

https://www.josephoat.com/

KINECTRICS

Kinectrics is the category leader in providing life cycle management services for the electricity industry. From initial design and type testing to operational deployment and maintenance services, Kinectrics collaborates closely with customers to ensure that utility assets perform safely, reliably throughout their entire life cycle.

SERVICES SUPPORTING ALL STAGES OF THE NUCLEAR POWER PLANT LIFE CYCLE

Design Engineering and Sites—Kinectrics is a Tier 1 supplier of engineering and on-site services providing consistent, cost-effective, and innovative complete solutions to clients globally.

Nuclear Safety and Licensing—Kinectrics is a market leader in North America in providing safety and licensing support to nuclear utilities.

Nuclear Equipment Solutions—Kinectrics is one of the most diverse suppliers in North America of Safety-Related parts, and can provide the following services to assist utilities with their unique parts, obsolescence and refurbishment challenges.

Materials and Major Components—Offering industry-renowned capabilities in life cycle management of major components.

Radioactive Material and Chemistry Services—A combination of CNSC licensed facilities and an ISO 17025 accredited laboratory that provides expert Analytical Chemistry, Nuclear Waste Management and Environmental services.

Inspection and Maintenance Systems—Kinectrics provides the full suite of services for the design, prototyping, development, testing, deployment and maintenance of inspection and non-destructive evaluation (NDE) systems and tooling.

Location: Etobicoke, Ontario, Canada
Founded: 2000
Principal/CEO: David Harris
Major Customers: Westinghouse, Emerson, Duke Energy, Bruce Power, Ontario Power Generation, Entergy, Wolf Creek, Callaway, TVA
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Nisa Halsey | nisa.halsey@kinectrics.com |
Office phone: 416-207-6000 (x) 6315 | Mobile: 443-350-1556
David Marttila | david.marttila@kinectrics.com
Office phone: 416-207-6000 (x) 5891 | Mobile: 416-400-6894

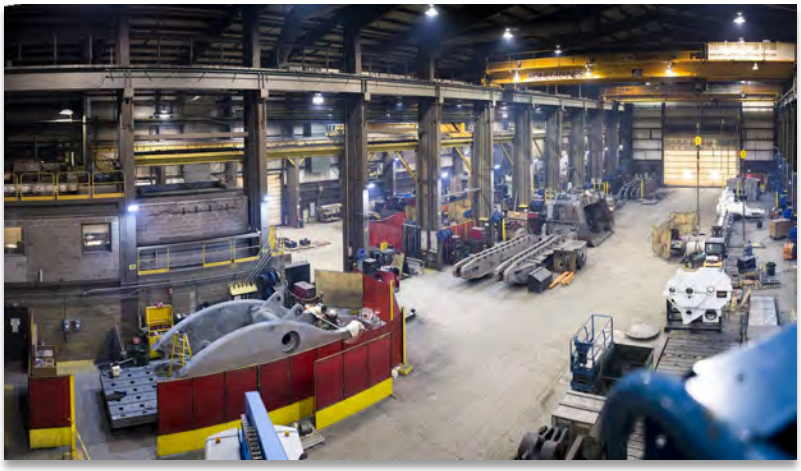
https://www.kinectrics.com/

L&H INDUSTRIAL

ADVANCED NUCLEAR | SUPPLIER

Founded in 1964 and headquartered in Gillette, Wyoming, USA, L&H Industrial is a leader in technology innovations, custom manufacturing, and comprehensive services for heavy industrial machinery used in mining, oil and gas, railways, wind, hydro, nuclear and other industries. Today, in our third generation as a family business, we have offices and distribution partners around the world and hundreds of employees dedicated to delivering outstanding service and innovations for the biggest and hardest-working machines on the planet.

We can custom-engineer and build, from the ground up, any heavy equipment assembly or machine that you need for your operation. Our worldwide 24/7 Field Services network is on the job whenever you need heavy equipment troubleshooting, repairs, rebuilds, relocations, or replacements. And thanks to our specialized Design & Engineering and state-of-the-art Manufacturing & Repair services, we are a go-to international supplier for improved components and custom assemblies for heavy industrial machinery.



Location: Gillette, WY
Founded: 1964
Principal/CEO: Mike Wandler
Major Customers: Canadian Natural, Kirkland Lake Gold, Navajo Transitional Energy, Imperial Oil, Grupo Mexico, Ellefson Off Highway, Holcim, Mainetec Pty Ltd., Capstone, Asarco LLC
Federal Engagement: DOE
Preferred Point of Contact: Gage Wandler | gwandler@lnh.net | 480-889-2830
Mike Wandler | mwandler@lnh.net | 307-682-7238

https://www.lnh.net/

LIGHTBRIDGE CORPORATION

ADVANCED NUCLEAR | SUPPLIER

Lightbridge develops next generation fuel technology.

Location: Reston, VA
Founded: 2006
Principal/CEO: Seth Grae
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC
Preferred Point of Contact: Seth Grae | 571-730-1200

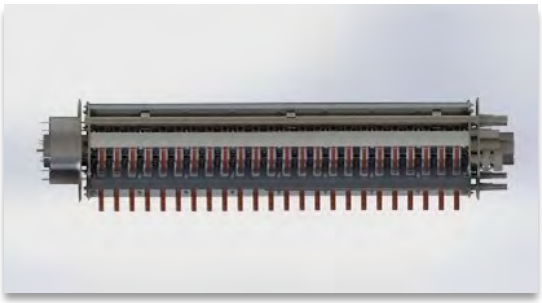
https://www.ltbridge.com/

MAIDANA RESEARCH

ADVANCED NUCLEAR | SUPPLIER

MAIDANA RESEARCH
Engineering Design and Scientific Research

MAIDANA RESEARCH is a small business dedicated to engineering design and scientific research. Its main set of activities rely on computer aided design, engineering and manufacturing (CAD/CAE/CAM), basic and applied research in the engineering and physical sciences, and consulting in topics related to industries and advanced technologies deemed critical to national security and to long term economic development including, but not limited to, aerospace, satellites, nuclear technologies, defense-related industries, and advanced energy systems.



We provide specialized services in the research, design and development of liquid metal and molten salt electromagnetic pumps for nuclear, space and industrial applications including software development, rapid prototyping, advanced and hybrid manufacturing, test loops, instrumentation and control, and digital monitoring systems for active flow control and machine protection.

- Computer Aided Design (CAD)
- Computer Aided Engineering (CAE)
- Computer Aided Manufacturing (CAM)
- Rapid Prototyping
- Reverse Engineering
- Instrumentation and Control
- Modeling and Simulations
- Multi-Physics Analysis
- Computational Physics
- Software Engineering
- Digital Prototyping

Location: USA (ID) and Thailand
Founded: 2015
Principal/CEO: Dr. Carlos O. Maidana
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, NASA, DOD, Other
Preferred Point of Contact: management@maidana-research.com

https://www.maidana-research.com/

MASTER-LEE ENGINEERED PRODUCTS, INC.

ADVANCED NUCLEAR | SUPPLIER

Master-Lee Engineered Products Incorporated (MLEP) serves the nuclear power industry with innovative, quality tooling and products designed with reliability, longevity, and personnel safety in mind. Our Engineering Team's experience in creating simple solutions for complex problems has been finely tuned over decades of operation and honed through thousands of specialized projects. We strongly emphasize teamwork throughout our organization and consistently welcome our customers onto our Team to work through challenges together, and to mold a long lasting customer-vendor relationship.

Having provided tooling and services to the commercial nuclear power industry for over 35 years, we have attained a strong working knowledge and depth of experience in: reactor maintenance/assembly/disassembly, fuel handling tooling, underwater and/or radiological area lighting, remote tool operation, special lifting devices, and personnel work platforms. We have also created specialized tooling and equipment for the decommissioning of various commercial nuclear power plants as well as test reactor sites of the DOE. Whatever challenges your project brings you, Master-Lee Engineered Products, Inc. is well equipped to deliver you a timely and effective solution.

Location: Latrobe, PA
https://www.masterlee.com
Founded: 1987
Principal/CEO: Thomas Tallarico
Major Customers: Duke Energy, Constellation, PG&E, Talen Energy, Energy Harbor, NPPD, Energy Northwest, TVA, Southern Nuclear, Entergy, Dominion Energy, Luminant, NextEra Energy, Framatome, Westinghouse
Federal Engagement: DOE
Preferred Point of Contact: Matt Batsa, VP of Engineering | batsa-ma@masterlee.com | 724-8054964

MATERION

ADVANCED NUCLEAR | SUPPLIER

Materion at a Glance:
A global high-tech solutions provider of performance alloys, precision coatings and advanced materials.

- Founded in 1931
- Publicly traded on NYSE since 1972 (MTRN)
- In excess of $1 billion in sales

Materion services customers in the aerospace, architectural glass, automotive, defense, energy, nuclear, precision optics, and semiconductor electronics markets.

Location: Mayfield Heights, OH
Founded: 1931
Principal/CEO: Jugal K. Vijayvargiya
Major Customers: Aerospace, Architectural Glass, Automotive Defense, Energy, Nuclear, Precision Optics, and Semiconductor Electronics Markets
Federal Engagement: DOE, ARPA-E, GAIN, NRC
Preferred Point of Contact: Chris Helwig | christopher.helwig@materion.com
Office: 414-212-0239 | Mobile: 414-708-8738

https://www.materion.com/

MERIDIAN SERVICES GROUP

ADVANCED NUCLEAR | SUPPLIER

For over 20 years, Meridian (formerly High Bridge Associates and Work Management) has served various industries spanning power generation (nuclear, fossil, and renewables), federal government, T&D, petro-chemical, and Environmental Management. Meridian is an industry leader in SMR, AR, and LLWR planning, analysis, and advisement with expertise encompassing all phases of the project life cycle and beyond to operations and decommissioning, in the US and abroad.

For new nuclear power (NNP) plant facilities, Meridian has been part of owner/licensee/project teams to assist with ***screening technology options & life cycle economics*** for LLWR, SMR, & Advanced Reactor designs. It utilizes a comprehensive database of cost/schedule/risk historical information and financial modeling tools to assist customers with evaluating the 80-year life-cycle economic performance for licensing, EPC, operations/maintenance, and decommissioning. Meridian has performed strategic advisement and third-party independent reviews of cost, schedules, and risk assessment for various SMRs, ARs, and LWRs.

Meridian is committed to helping owners and contractors to learn from the past and apply these lessons and best practices for success in the future. The Nuclear Energy Institute (NEI) selected Meridian in 2019 to prepare NEI Report 20-08 published in April 2020 documenting strategic project management lessons learned and best practices for first-of-a-kind new nuclear plant construction. Our Meridian website provides links to PDF copies of each of the 32 public domain reference documents and case studies for 10 successful large FOAK projects cited in the NEI Report. In 2022/2023, NEI engaged Meridian to develop several implementation guides based on the 2019 NEI report to support the nuclear industry's needs for formal guidance.

Location: Greensboro, GA
Founded: 2021
Principal/CEO: Jim O'Connor, President | Ken Aupperle, SVP
Major Customers: TVA, Dominion, NuScale, Entergy, Southern, OPG, NEI
Federal Engagement: DOE, DOD, National Labs
Preferred Point of Contact: Elizabeth Snow | elizabeth.snow@meridian-sg.com | 423-468-4317

https://meridian-sg.com/

MERRICK & COMPANY

ADVANCED NUCLEAR | SUPPLIER

Nuclear Services and Technology

Merrick has provided nuclear engineering services since 1983. We custom design nuclear equipment, systems, and facilities. Hot cells, gloveboxes, custom enclosures, and in-cell equipment design represent our primary business in Merrick's Nuclear Services and Technology business unit. We design hot cells and remote handling equipment for fuel research, post irradiation examination, medical isotope production, nuclear weapons support facilities, neutron research facilities, and advanced science facilities requiring high-energy shielding. We understand how to design your facilities for functionality, operability, and maintainability. Whether enhancing capacity, increasing efficiency, modernizing technology, improving safety, or renovating facilities, our team of trusted experts provides the right solution, allowing our clients to realize the greatest value.

Location: Greenwood Village, CO
Founded: 1955
Principal/CEO: Tammy Johnson
Major Customers: CNS - Y-12 & Pantex, SRNS - Savannah River, Triad National Security - LANL
Federal Engagement: DOE, ARPA-E, GAIN, NNSA
Preferred Point of Contact: Keith Michaud | keith.michaud@merrick.com | 865-685-5532

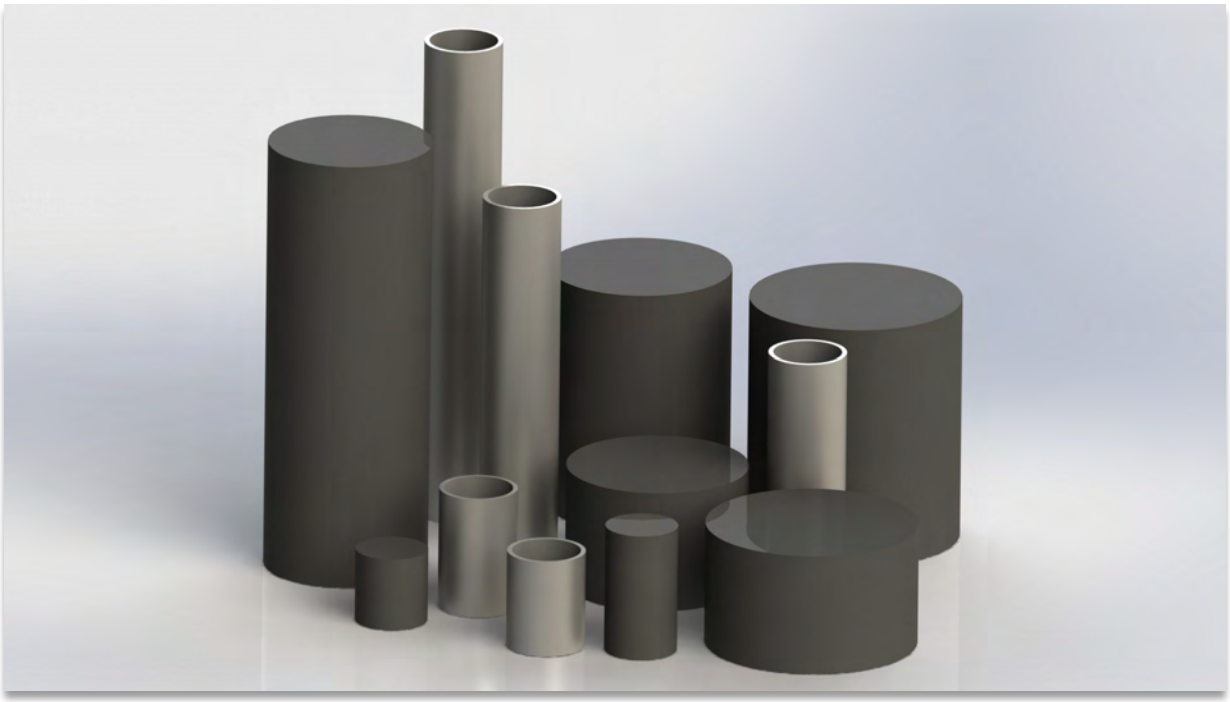
https://www.merrick.com/

MILLENNITEK LLC

ADVANCED NUCLEAR | SUPPLIER

MILLENNITEK LLC
AN ADVANCED MATERIALS MANUFACTURER

Millennitek manufactures neutron absorbers from high-temperature materials under our NQA-1 quality program. We also develop materials and have advanced manufacturing methods to accelerate time to market.



Location: Knoxville, TN
Founded: 2010
Principal/CEO: Steve Getley
Major Customers: Westinghouse, PNNL
Federal Engagement: NASA
Preferred Point of Contact: Steve Getley | steve.getley@millennitek.com | 865-771-2553

http://millennitek.com/

MP MACHINERY AND TESTING

ADVANCED NUCLEAR | SUPPLIER

MP Machinery & Testing, LLC (MPM) is a leading provider of test services for nuclear power & energy, steel & pipe, laboratory, aerospace and defense, transportation, electronics, and other industrial customers. With a long track record of unmatched expertise, MPM stands as one of a limited number of high activity hot cell facilities in the United States, giving the Company a unique advantage in delivering unparalleled solutions to our clients. In addition to testing services, MPM also manufactures testing products and provides calibration services.

MPM has extensive in-house experimental and computing capabilities. These resources are used to solve industry problems and to develop and advance existing testing machines. MPM's advanced technology and meticulous attention to detail provide customers with the highest quality products and services at a price which is significantly below that of competitors.

Location: State College, PA
Founded: 2009
Principal/CEO: Michael Manahan
Major Customers: Non-Disclosed
Federal Engagement: Idaho National Laboratory, Oak Ridge National Laboratory, Los Alamos National Laboratory
Preferred Point of Contact: Michael Manahan | mpmanahan@mpmachineryandtesting.com
814-234-8860 x-121

https://www.mpmachineryandtesting.com/

MS TECHNOLOGY, INC.

ADVANCED NUCLEAR | SUPPLIER

MSTechnology

MS Technology, Inc. is an engineering and technology development small business headquartered in Oak Ridge, Tennessee that services the U.S. Department of Energy, U.S. Department of Defense, and private industry. We specialize in providing engineering and project support, Q-cleared engineers and technical professionals, and multiple Professional Engineers. We strive to solve our customers' most challenging problems by being a leader in design, development, and deployment of critical innovative technologies.

Our founders started MS Technology in 1994 by pursuing innovative metal melting technologies using microwave energy. We are now a world leader in design and delivery of microwave-driven metal melters and casting technology.

We leveraged our innovative development experience to evolve into experts in equipment and process design. Our portfolio includes design of uranium fuel fabrication processes, glovebox design and structural analyses, design documents for complex infrastructure projects, and air emission control systems. Our customers value our ASME NQA-1 quality program that has withstood audits by NNSA prime contractors. We used our experience to evolve into full facility design, including architectural, civil, structural, mechanical, electrical, chemical, nuclear, fire protection, and instrumentation and controls disciplines.

We didn't stop there. Good engineering in a digitally transformed world means Total Lifecycle Systems Engineering. This includes cradle-to-grave requirements identification, capture, establishment of requirement bases, verification, validation, and management for the life of the asset. We are experienced in lifecycle analysis processes to maintain the health of mission critical assets. We are adept at evaluating alternatives and failure modes and effects analyses (FMEA). We can help you tailor a requirements management plan, including DOORS implementation, to meet your needs.

We are ready to help you tackle your most challenging problems.

Location: Oak Ridge, TN
Founded: 1994
Principal/CEO: Peter Newby, President
Major Customers: NNSA, DOE, Centrus, TRISO-X
Federal Engagement: DOE, GAIN, NRC, NNSA
Preferred Point of Contact: Peter Newby | peter.newby@mstechnology.com | 865-483-0895

https://www.mstechnology.com/

NUCLEAR ENERGY CONSULTANTS, INC.

ADVANCED NUCLEAR | SUPPLIER

We are a consulting, engineering, regulatory, & technical support services firm helping clients like you lead the way in advanced & SMR design & development.

Our contributions have been instrumental in clients achieving their goals, including the first successful SMR design certification by the NRC & the first commercial contract to build a grid -scale SMR in North America.

NEC is conveniently located in Rockville, Maryland near utility and nuclear regulatory agencies, industry corporate offices and Washington, D.C.

We have an optimal mix of historical industry know-how, leading innovative services, & the flexibility to meet current challenges for today's FOAK, scalable, streamlined designs. NEC's goal is providing the highest quality products & services to the nuclear industry while achieving total client & employee satisfaction through a philosophy of corporate & employee dedication to excellence.

Thank you for considering NEC. We look forward to working with you.

Location: Rockville, MD
Founded: 1983
Principal/CEO: William R. Mills
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC
Preferred Point of Contact: Marlisa Willie, Project Resource Mgr. | mwillie@necenergy.com
301-840-2964

https://www.necenergy.com/

NUCLEAR ROSE CONSULTING, LLC

ADVANCED NUCLEAR | SUPPLIER

Nuclear Regulatory Oversight, Safety & Environmental (Nuclear ROSE) Consulting, LLC

Rani Franovich, principal consultant and expert witness, is a former inspector, manager and leader at the US Nuclear Regulatory Commission. She applies 30+ years of experience with reactor safety, security, oversight and licensing (both safety and environmental reviews). Possessing a rare combination of technical knowledge, applied experience, critical thinking, exceptional communication and ethical leadership, she delivers top-notch consulting and highly credible expert witness services.

Consultant and Expert Witness

We offer services in a wide range of regulatory matters, including reactor oversite and licensing reviews. Our services are tailored to meet the unique needs of each client and tap a deep reservoir of expertise and relationships. We deliver high-quality results while maintaining the highest levels of integrity, efficiency, and accountability.

Public Speaker and Educator

We have applied experience with public outreach and media engagement, actively listening to stakeholder concerns, responding with factual information, candidly acknowledging very low risks associated with nuclear energy generation, debunking common mis-conceptions, and lecturing on ethics and leadership in government and nuclear power industry.

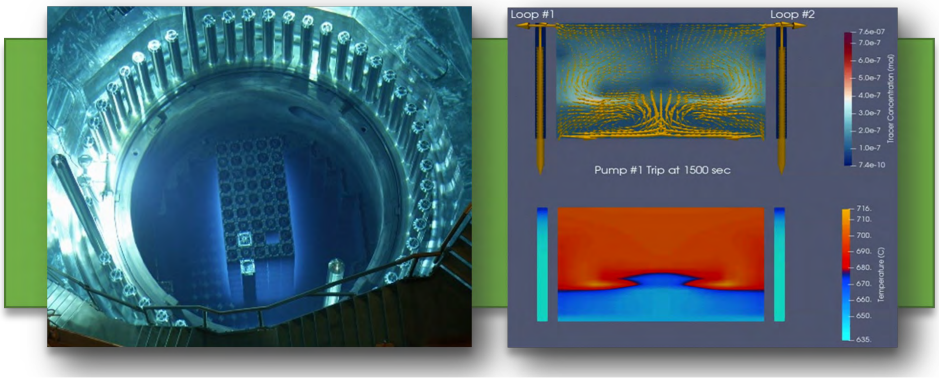
Location: Bethesda, MD
Founded: 2023
Principal/CEO: Rani Franovich
Major Customers: Nuclear Innovation Alliance, Radiant Industries
Federal Engagement: NRC, Congress
Preferred Point of Contact: Rani Franovich | rani@nuclearrosellc.com | 240-418-4164

https://www.nuclearrosellc.com/

NUMERICAL ADVISORY SOLUTIONS

ADVANCED NUCLEAR | SUPPLIER

Numerical Advisory Solutions, LLC (NAS) provides trusted, best-in-class software tools, analysis, engineering, and design services. We are internationally recognized for our expertise in thermal-hydraulic analysis, radiological analysis, safety analysis, licensing methods, quality assurance requirements and engineering software development. Our experience is rooted in design and support of operating nuclear power facilities; however, we support a wide variety of advanced reactor designs, including SMRs, non-LWRs, microreactors, research reactors and medical isotope facilities. NAS is also engaged in hydrogen production, carbon capture and chemical process projects supporting sustainability goals. With a focus on developing innovative, practical and cost-effective solutions to our customer's toughest problems, NAS collaborates with our clients to ensure the safe design and efficient operation of nuclear facilities worldwide. We also leverage advanced modeling and simulation software with cutting-edge technologies, such as AI/ML, to develop and apply tools like Digital Twins and other dynamic decision-making tools to improve efficiency in design, construction, and operations & maintenance. NAS, and predecessors, Zachry Nuclear Engineering, Inc., Proto-Power Corporation, Numerical Applications, Inc., and Computer Simulation & Analysis, Inc., have an established record of providing engineering services and software products to the nuclear industry worldwide for nearly 40 years.



Location: Cary, NC
Founded: 1984
Principal/CEO: James R. Harrell, President
Major Customers: Electric Utilities, advanced reactor designers, research organizations, regulators, architect/engineers, fuel vendors, and government energy agencies
Federal Engagement: DOE, ARPA-E, NRC
Preferred Point of Contact: James R. Harrell | harrelljr@numerical.com | 919-653-7651

https://www.numerical.com/

NUTHERM INTERNATIONAL, INC.

ADVANCED NUCLEAR | SUPPLIER

Nutherm is a small business concern serving the DOE and commercial nuclear power industry since 1979. We specialize in the design, manufacture, qualification, and commercial-grade dedication of systems and components for electrical power, control, and instrumentation. Nutherm's in-house lab features electrical performance, accelerated thermal aging, HELB, LOCA, and seismic testing along with numerous specialized testing devices. Nutherm maintains a Quality Assurance Program to support its products and services for safety-class and safety-significant applications. The Nutherm audited Quality Assurance Program meets the requirement of ASME NQA-1, 10 CFR 50 Appendix B, 10 CFR Part 21, ANSI/ASME Standard N45.2, and DOE Order 414.1D.

Location: Mt. Vernon, IL
Founded: 1976
Principal/CEO: Wade Bowlin
Major Customers: Los Alamos National Laboratory, Oak Ridge National Laboratory, Savannah River Site, Hanford Site
Federal Engagement: DOE, NRC
Preferred Point of Contact: sales@nutherm.com

https://www.nutherm.com/

NUVISION ENGINEERING

ADVANCED NUCLEAR | SUPPLIER

NuVision Engineering is an engineering and technology services company specializing in nuclear applications. We provide technically advanced engineering solutions and services for governments and businesses worldwide. We also design and deploy rad-hardened robotic manipulators for use in radioactive environments, and advanced process systems to manage radioactive waste. Our customers include the U.S. and international governments, utility companies, and medical research facilities. Our experienced staff and portfolio enable us to provide solutions to complex problems safely, quickly, and cost effectively. NuVision was founded in 1971 and is headquartered in Pittsburgh, Pennsylvania, with major operational facilities near Charlotte, North Carolina.

Location: Pittsburgh, PA
Founded: 1971
Principal/CEO: Erich Keszler | ekeszler@nuvisioneng.com
Major Customers: U.S. and international governments, utility companies, and medical research facilities
Federal Engagement: DOE, GAIN, ARPA-E, NRC, U.S. and International Governments
Preferred Point of Contact: Michael Frankle | mfrankle@nuvisioneng.com

https://nuvisionengineering.com/

PARAGON ENERGY SOLUTION

ADVANCED NUCLEAR | SUPPLIER

Paragon

The nuclear industry's most trusted supplier

For over 30 years, Paragon has been supporting the nuclear industry with quality, innovation and an intense focus on customer service. With our ever expanding product and service offerings, Paragon is positioned to serve the rapidly expanding SMR and Advanced Reactor designs with our certified HIPS FPGA based platform digital control systems, neutron flux monitoring systems and all critical equipment needs. This is in additional to our unwavering continued support for the existing commercial nuclear fleet and DOE facilities with our traditional product lines of nuclear industry qualified custom and COTS electrical, mechanical, HVAC and I&C equipment.

Paragon controls the complete project lifecycle, from design and qualification to manufacturing, testing and supply. Our in-house testing and equipment qualification capabilities include Seismic Testing on any of our four (4) seismic tables, Thermal Aging, Cyclic Aging & Testing, EMI / RFI Testing, Loss of Coolant Accident (LOCA) & High Energy Line Break (HELB) Testing, Software Verification & Validation, Cybersecurity, and much more.

Paragon's commitment to our Nuclear Safety Culture allows us to be in lock step with the values of the customers we serve while maintaining the highest levels of quality. Our Quality Assurance Program includes 10CFR50 Appendix B, 10CFR21, ASME NQA-1, CSA Z299.1-16, ASME Section III, N, NS, NPT and NR Certificates of Authorization, and our programs are audited by NUPIC and NIAC.

Location: Fort Worth, TX
Founded: 1990
Principal/CEO: Doug VanTassell
Major Customers: TVA, Constellation, Southern Co, Entergy, KHNP, OPG, Bruce Power, Bechtel
Federal Engagement: DOE, NRC, DOD
Preferred Point of Contact: John Portillo | jportillo@paragones.com

https://www.paragones.com

PAXTON & VIERLING STEEL (NQA-1)

ADVANCED NUCLEAR | SUPPLIER

PVS: A Legacy of Excellence in NQA-1 Steel Fabrication

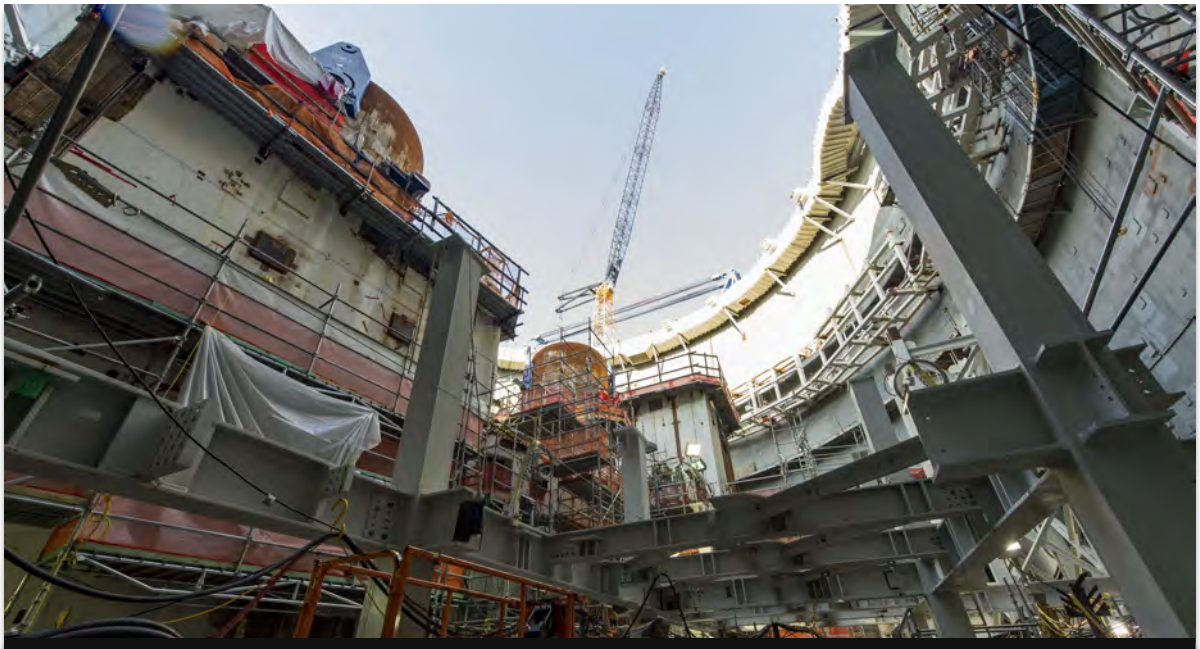
PVS is a structural steel fabricator with over 140 years of experience and is recognized for operating the most successful NQA-1 program in the U.S.. Within the past 25 years, we have specialized in verbatim compliant, nuclear-grade fabricated and coated steel to a range of sectors, including:

Commercial Nuclear: AP1000 nuclear island projects at Vogtle and Summer (FOAK & NOAK), SMR design reviews

Department of Energy (DOE) Nuclear: Hanford Site, Idaho National Lab (INL), Savannah River Site, Oak Ridge Y12 Medical Nuclear: SHINE

Medical Technologies

Having the premiere AISC - N690 SME, in-house, we offer comprehensive evaluations, at risk.



Maintenance deck inside Vogtle Unit 3 containment vessel. March 2018 ©2018 Georgia Power Company All rights reserved.

Location: Carter Lake, IA
Founded: 1885
Principal/CEO: Tyler Owen
Major Customers: Westinghouse, CBI, WecTec, BNI, Kiewit, Parsons, Amentum, Fluor, NuScale
Federal Engagement: INL, SRS, Hanford, ORNL Y12, NASA
Preferred Point of Contact: Joe Wishard, BD Director | jwishard@pvsteel.com | 402-770-8709

www.pvsstructures.com

ADVANCED NUCLEAR | SUPPLIER

PMT NUCLEAR

PMT Nuclear (PMT) specializes in designing, manufacturing, qualifying and testing specialty equipment for use at commercial nuclear power plants and DOE facilities. Founded in 1994, PMT has been supplying purpose built equipment such as chillers, air handling units, filtration units, heat exchangers, dampers, ductwork, actuators, fans, piping, cooling coils, flexible connections, and other specialty critical components to the nuclear industry for decades. We design equipment specifically for the intended application based upon your specification requirements. All design work and manufacturing occur at our 140,000 sq. ft. combination office / fabrication facility located in Woodridge, Illinois. Additionally, PMT has a robust commercial grade dedication (CGD) program and routinely dedicates all types of commodities, products, and equipment.

PMT has a comprehensive Quality Assurance Program that meets the requirements of NQA-1 2008 Edition / 2009 Addenda and 10 CFR 50 Appendix B / 10 CFR Part 21. Our products and services can be provided as Safety Related / Safety Significant or as commercial grade.

Location: Woodridge, IL
Founded: 1994
Principal/CEO: Ben Campbell, President | Charles Wojcik, Vice President
Adam Toepper, Quality Assurance Manager | Mike Marcuccilli, Director of Nuclear Sales
Major Customers: Domestic / International Commercial Nuclear Power Plants, Department of Energy (DOE) Sites, Department of Defense (DOD) Contractors, and US National Laboratories
Federal Engagement: DOE
Preferred Point of Contact: Mike Marcuccilli | mmarcuccilli@ams-pmt.com | 630-470-7960

https://www.pmtnuclear.com/

POWER SYSTEM SENTINEL TECHNOLOGIES, LLC

PSStech

Guarding the Grid

Born out of a need to protect the nuclear industry, PSStech was founded to provide nuclear generating stations with open phase protection. PSStech provides design, manufacturing, and engineering services to the electric power industry and large industrial and commercial customers.

Location: Warrior, AL
Founded: 2014
Principal/CEO: Greg Franklin
Major Customers: U.S. Nuclear Power Plants, Electric Power Utilities, Large Industrial & Commercial Facilities
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Chris Melhorn | cmelhorn@psstech.com | 865-456-0602

https://www.psstech.com/

PRECISION CUSTOM COMPONENTS, LLC

ADVANCED NUCLEAR | SUPPLIER

PCC has been manufacturing large hydro, fossil, and nuclear power generation equipment in our York, PA location for over 140 years. We have fabricated NSSS vessels and other equipment for the nuclear and process industries including Westinghouse, GE, Framatome, ExxonMobil, Dow DuPont, U.S. Navy, DOE, National Labs, electric utilities, and others. Our nuclear manufacturing history dates back to the industry's origins with Shippingport-1 and continues to this day with SMR, Gen III+ and Gen IV reactor hardware and design support.

Location: York, PA
Founded: 1876
Principal/CEO: Gary Butler
Major Customers: Westinghouse, Framatome, NuScale, BWXT, US Navy, Bechtel, General Dynamics, Northrop Grumman, Dow DuPont, ExxonMobil, US DOE, and National Laboratories
Federal Engagement: DOE, NRC, DOD, NASA
Preferred Point of Contact: Blair Woodring | bwoodring@pcc-your.com | 717-881-2741

https://www.pcc-york.com/

PREMIER TECHNOLOGY

ADVANCED NUCLEAR | SUPPLIER

Located in Blackfoot, Idaho, just 30 minutes from the Idaho National Laboratory, Premier Technology, Inc. (Premier) is a recognized leader in nuclear fabrication. Premier has supported the nuclear industry for more than two decades, completing over 1,000 projects under nuclear quality assurance programs such as ASME NQA-1 and ASME Section III.

Premier has successfully performed over $250 million in work under nuclear quality assurance programs in the last decade with single projects as large as $80M. This includes prototype fabrication, first-of-a-kind builds, and full production runs.

Premier is committed to supporting the development and deployment of advanced reactors. Contact us to discuss your needs for manufacturability reviews and prototyping efforts or to discuss long-term partnerships for manufacturing of reactors.

Location: Blackfoot, ID
Founded: 1996
Principal/CEO: Shelly Sayer
Major Customers: Westinghouse, Areva, Bechtel, NuScale, INL, PNNL, ORNL, SRNL, Others
Federal Engagement: DOE, GAIN, NRC, Other
Preferred Point of Contact: Logan Worthington | lworthington@ptius.net | 208-785-2274

https://www.ptius.net/

RADQUAL, LLC

ADVANCED NUCLEAR | SUPPLIER

RadQual, LLC is a wholly owned subsidiary of International Isotopes Inc. and is one of only two United States based source manufacturing companies. RadQual and International Isotopes Inc. have over 150 years of combined experience in manufacturing radionuclide and sealed sources for nuclear and nuclear medicine communities. We focus our efforts on producing high quality products with superior customer service. All our products are manufactured under the highest quality standards of ISO 9001 and 13485 and have “CE” Mark registration. All our products carry a full lifetime warranty against manufacturing defects and a 100% customer satisfaction guarantee.

RadQual is also the only distributor for LEA Premium Calibration Standards in the United States and Canada. LEA produces a wide range of radioactive sources for control and calibration of equipment in the fields of radiation protection and metrology. LEA’s calibration and reference sources are measured according to ISO 17025:2017 under COFRAC accreditation, which provides the same traceability as the National Institute of Standards and Technology (NIST).

Location: Idaho Falls, ID
Founded: 2001
Principal/CEO: Steve Laflin
Major Customers: US and Canada National Laboratories and Nuclear Facilities
Federal Engagement: DOE, GAIN, NRC, Other
Preferred Point of Contact: Kevin Coltellaro | kcoltellaro@intisoid.com | 202-420-9716

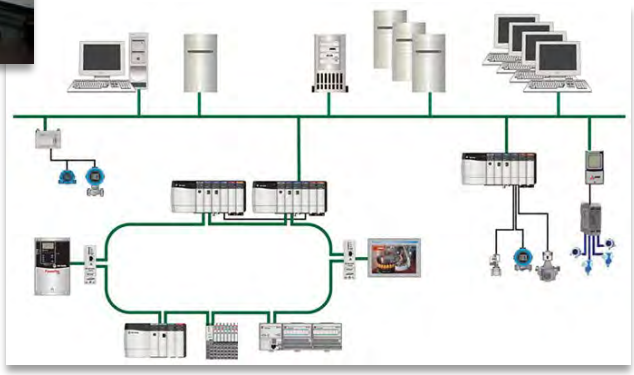
https://www.radqual.com

ROCKWELL AUTOMATION, INC.

ADVANCED NUCLEAR | SUPPLIER

Rockwell Automation is based in the United States and is the world's largest company dedicated to industrial automation and digital transformation. We participate in every step of the nuclear ecosystem, from mining, conversion, enrichment, fuel fabrication to control systems for Gen IV reactors. Our scalable and reliable hardware is combined with intuitive software that has become the trusted industry standard in North America. This technology is backed by 24/7 factory support and strengthened by a robust partner network of authorized distributors, system integrators, technology partners, EPC's and OEM's.

We also understand that a safe and secure OT environment is mandatory in the nuclear industry, so we provide domain expertise to design a cyber security architecture that also enables the use of advanced process controls and edge-based digital tools to optimize your process.



Location: Milwaukee, WI
Founded: 1903
Principal/CEO: Blake Moret

https://www.rockwellautomation.com/en-us.html
https://www.rockewllautomation.com/nuclear-power

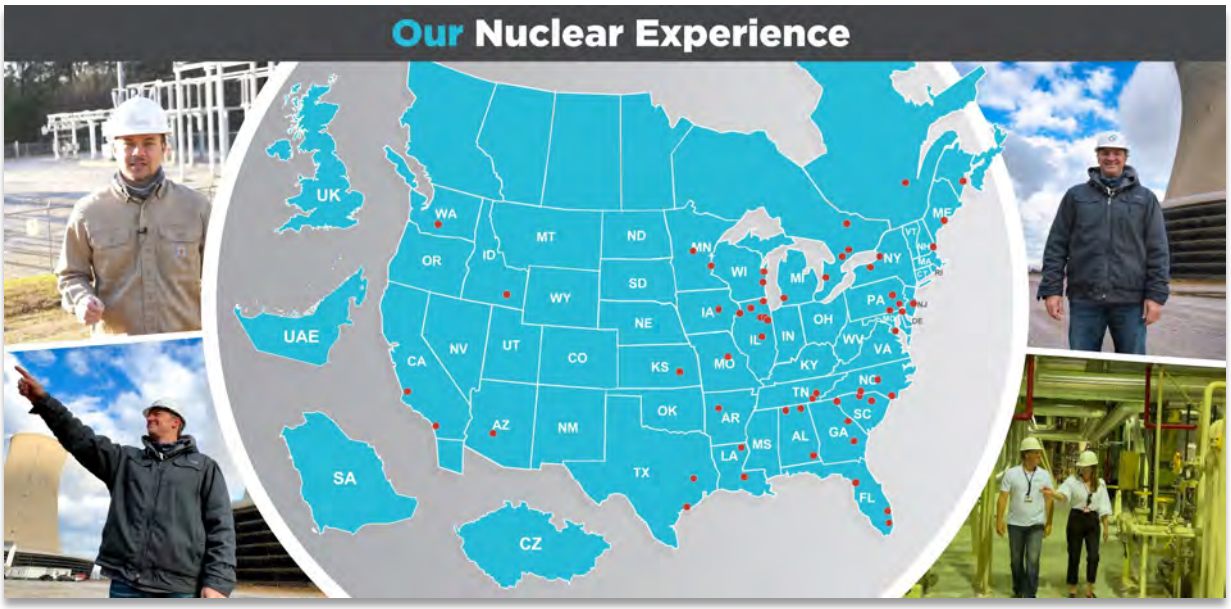
Major Customers: BWXT, Westinghouse, Framatome, Centrus Energy, Curtis-Wright, DOE National Labs, NNSA Sites, Bechtel, Kairos Power, NASA, Northrop Grumman, TRISO-X
Federal Engagement: DOE, NNSA, DOD
Preferred Point of Contact: Jim Gibby | jimmy.gibby@rockwellautomation.com | 615-650-3967

ADVANCED NUCLEAR | SUPPLIER

SCOTTMADDEN

ScottMadden is a Management Consulting firm helping clients in every aspect of energy, including nuclear generation. We help our clients build tailored solutions to improve cost and operational performance. Our deep, practical nuclear experience helps maintain safe, reliable operations and support transformation for a net zero future.

Learn more: https://bit.ly/3GjKoU3



Location: Atlanta, GA
Founded: 1983
Principal/CEO: Brad Kitchens
Major Customers: Utilities & Nuclear Power Plants, Research Institutes, Vendors supporting the nuclear community
Federal Engagement: DOE, Idaho National Laboratory, National Labs
Preferred Point of Contact: Ed Baker | EBaker@scottmadden.com | 678-702-8302

https://www.scottmadden.com/

SIMPSON GUMPERTZ & HEGER INC.

ADVANCED NUCLEAR | SUPPLIER

Simpson Gumpertz & Heger (SGH) is a national engineering firm committed to delivering holistic advice for our clients' most complex challenges. We leverage our collective and diverse experience, technical expertise, and industry knowledge of structures and building enclosures, advanced analysis, performance & code consulting, and applied science & research to deliver unrivaled, comprehensive solutions that drive superior performance. With 700 employees in eight office locations throughout the United States, SGH's industry-leading teams constantly seek to advance the meaning of what's possible.

Location: Waltham, MA
Founded: 1956
Principal/CEO: James Parker
Major Customers: Nuclear plants domestic & international, DOE & DOD facilities, A&E firms, architects, owners, advanced nuclear technology developers (confidential)
Federal Engagement: DOE, NRC, DOD, GSA
Preferred Point of Contact: Derrick Watkins | dawatkins@sgh.com | 858-997-8985

https://www.sgh.com/

ADVANCED NUCLEAR | SUPPLIER

SOCOTEC ENGINEERING

SOCOTEC optimizes the integrity and the sustainability of critical assets within the TIC (Testing, Inspection, Certification) industry in the construction and infrastructure sectors through consulting services, by assembling and coordinating holistic teams of technical experts and advisors to solve our clients' most complex problems, from conception to project execution, throughout the lifecycle of assets, around the globe.

Location: New York, NY
Founded: 1885
Principal/CEO: Robert Vecchio, CEO
Major Customers: INL, ANL, Entergy, EPRI, Duke, Holtec, Con Edison, PASNY, Vicinity, PANYNJ
Federal Engagement: DOE
Preferred Point of Contact: Mr. Sontra Yim | sontra.yim@socotec.us | 603-686-9676

https://www.socotec.us/

SOUTHERN NUCLEAR DEVELOPMENT, LLC

ADVANCED NUCLEAR | SUPPLIER

Southern Nuclear

Southern Nuclear Development, a subsidiary of Southern Nuclear Operating Company, pursues partnerships across the industry to drive the success of advanced nuclear technologies to be deployed as we move toward low- to no- carbon operations by 2050 — benefiting Southern Company customers for years to come. Southern Nuclear Development leverages decades of experience and research in nuclear operations, engineering, licensing and development to help advanced nuclear developers execute each phase of their strategy, from concept to commercial operation.

Location: Birmingham, AL
Founded: Non-disclosed
Principal/CEO: Stephen E. Kuczynski
Major Customers: Non-disclosed
Federal Engagement: DOE, NRC, EPA, FEMA
Preferred Point of Contact: Ben Carmichael | bmcarmic@southernco.com | 205-992-5944

https://www.southernnuclear.com/

SOUTHWEST RESEARCH INSTITUTE

ADVANCED NUCLEAR | SUPPLIER

SwRI is an independent, nonprofit, and multidisciplinary applied research and development organization. We are R&D problem solvers providing independent, premier services to government and industry clients. We work in the public's best interest and toward the betterment of humanity.

SwRI supports the commercial nuclear industry, and federal, state, and regional research and regulatory efforts across a broad spectrum of engineering and science areas.

- Performs multi-level material assessments for the nuclear industry, ranging from quick turn-around metallurgical and electronic failure analyses and mechanical testing programs to comprehensive studies which couple mechanical and material testing with computational modeling and risk assessments.
- High pressure and high temperature testing facilities are available to simulate the environmental conditions found in nuclear power plant. This includes a recirculating flow loop that replicates BWR and PWR primary water systems.
- Fire testing and modeling facilities support in-plant fire hazards, as well as performance of radioactive material storage and transportation packages.
- Provides technical evaluations in support of the licensing, inspection, and maintenance of facilities used across the nuclear fuel cycle. These evaluations are conducted by staff in the Center for Nuclear Waste Regulatory Analyses, a federally funded research and development center established in 1987 by the U.S. Nuclear Regulatory Commission (NRC), with augmentation across SwRI.
- Conducts multi-hazard risk assessments using deterministic and probabilistic methodologies to evaluate earthquake, flooding, tornado, tsunami, volcano, and other natural hazards. SwRI staff also have extensive experience in the Senior Seismic Hazard Analysis Committee (SSHAC) process (NRC NUREG-2213).
- Offers a team of mechanical engineering experts who focus on nondestructive evaluation of nuclear reactors in compliance with federal and international regulations, as well as engineers and scientists who specialize in failure analysis of electrical, hydraulic, and mechanical components.
- Extensive laboratories for environmental chemistry and radiochemistry investigations, including a wide range of chemical and radioactive contaminants.
- On-campus hot laboratory is available to evaluate radiologically contaminated parts and irradiate parts and components to assess their performance, all under an Institute Quality Plan that is 10 CFR Part 50 Appendix B compliant. This facility supports our extensive work for the U.S. Department of Energy (DOE) under the Off-site Source Recovery Program.
- Prepares and reviews environmental reports, environmental impact statements and other documents in support of National Environmental Policy Act (NEPA) evaluations for nuclear site. This work includes extensive public outreach and engagement.

Location: San Antonio, TX
Founded: 1947
Principal/CEO: Adam L. Hamilton, P.E., President and CEO
Major Customers: Non-disclosed
Federal Engagement: DOE, ARPA-E, NRC, DOD, DHS, DOI, DOT, NASA, EPA, Other
Preferred Point of Contact: Business Inquires Office | ask@swri.org | 210-522-2122

https://www.swri.org

STANDARD NUCLEAR

STANDARD NUCLEAR

ADVANCED NUCLEAR | SUPPLIER

Standard Nuclear, Inc. is a technology company with the mission of delivering the essential building blocks of nuclear power reliably and at scale--enabling cost-effective, safe, and secure energy for the world. Standard Nuclear, the world's only reactor-agnostic advanced fuel manufacturer, operates multiple facilities at its campus located at 200 Europia Avenue in Oak Ridge, Tennessee. The company is focused on production of tri-structural isotropic (TRISO) fuel particles and other non-fuel advanced nuclear ceramics that are used in advanced reactor systems and other high temperature applications. Among the capabilities housed at our main campus are a commercial-scale TRISO production line operating under our NQA-1 program. Standard Nuclear also holds unique design, engineering, analysis, assembly, and testing capabilities dedicated to the development of space and radioisotope power systems.

Location: Oak Ridge, TN
Founded: 2024
Principal/CEO: Dr. Kurt Terrani
Major Customers: Advanced Nuclear Reactor Developers, NASA, DoD, DOE
Federal Engagement: DOD, NASA
Preferred Point of Contact: Gus Gustavson | dgustavson@standardnuclear.com | 615-933-9665

https://www.standardnuclear.com/

STRUCTURAL INTEGRITY ASSOCIATES, INC.

ADVANCED NUCLEAR | SUPPLIER

Structural Integrity Associates is a specialty engineering company serving the nuclear industry since 1989. Our talent and technology encompass monitoring & inspection capabilities, advanced analytical methods, and material assessment strategies to provide clients with expert asset integrity solutions and effective regulatory programs. Unique to our structural integrity capabilities are nuclear fuel engineer and structural analysis experts, and the most advanced fuel performance code in the nuclear industry.

Some of the services we provide include:

Engineering Analysis
• Perform stress, fracture mechanics, residual stress, dynamic/non-linear, computational fluid dynamics, and other advanced analyses using proprietary FEA tools and methods (ex. applied probabilistic fracture mechanics).
• Development of industry codes and standards including ASME, ASTM, ASNT, API, and others.
• Perform work under the auspices of documented and routinely audited Quality Assurance programs including NQA-1.

Materials Evaluations & Testing
• The latest field and laboratory testing technologies to identify causes of material degradation and damage.

Inspection & Monitoring
• Conduct Non-Destructive Examination (NDE) using state-of-the-art linear and annular phased array UT, TOFD,

Guided Wave, and Many Other Advanced NDE Technologies
• Develop and implement tooling customized to applications when needed.
• Apply technicians certified in accordance with ASNT and other standards' requirements.

Structural Integrity Associates maintains offices throughout the U.S.

Location: Charlotte, NC
Founded: 1989
Principal/CEO: Mark Marano, CEO | Tony Robinson, CNO
Major Customers: All major power generating utilities throughout North America. SI supports asset management programs for Nuclear, Fossil, and Renewable energy-producing power plants.
Federal Engagement: DOE
Preferred Point of Contact: Sean M. Fuller | sfuller@structint.com | 704-280-2564

https://www.structint.com/

STUDSVIK SCANDPOWER

ADVANCED NUCLEAR | SUPPLIER

Studsvik

Studsvik Scandpower provides nuclear simulation software and services which manage fuel from arrival on site to departure in casks. Key software products include CASMO/SIMULATE, GARDEL, S3K, S3R, MARLA, SNF, and CASKLOAD.

Location: Global
Founded: 1947
Principal/CEO: Art Wharton
Major Customers: Non-disclosed
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Melanie Joseph | melanie.joseph@studsvik.com

https://www.studsvik.com/

SYSTEM ONE HOLDINGS, LLC

ADVANCED NUCLEAR | SUPPLIER

System One is a leading provider of specialized, highly technical outsourced services and workforce solutions to critical infrastructure, technology, life sciences, and government sectors. We are a trusted and essential partner to large private and public organizations—mobilizing specialized, highly technical resources and expertise to execute their most complex, mission-critical programs and accelerate results. Founded more than 40 years ago as a staffing partner to the engineering industry, today System One is a diversified organization operating in over 50 locations and putting more than 9,000 people to work in the United States, Canada, and the United Kingdom.

System One supports the nuclear power industry to execute their complex, mission-critical initiatives through our outsourced services and workforce solutions. Our customers include domestic utilities, government laboratories supporting the US Departments of Defense and Energy, NSSS OEMs, EPCs, and other industry specialty manufacturers and service providers. For more information, visit systemone.com.

Location: Pittsburgh, PA
Founded: 2008
Principal/CEO: Troy Gregory
Major Customers: Savannah River Nuclear Services, Entergy, TVA, Constellation, Duke Energy, Framatome
Federal Engagement: DOE
Preferred Point of Contact: Bonnie Zodda-Schmidt | Director, Business Development
bonnie.zodda@systemone.com | 609-213-1929

https://systemone.com/

TAURUS teleSYS INC.

ADVANCED NUCLEAR | SUPPLIER

Taurus teleSYS, an Original Equipment Manufacturing (OEM) has implemented a Test Apparatus (TA) for hardware in the loop integrated testing and in emulation of a microgrid electrical transmission distribution and industrial data acquisition and control application.

Location: Newport News, VA
Founded: 1980
Principal/CEO: Arvind Patel
Major Customers: Newport News Shipbuilding, a HII subsidiary, Naval Nuclear Laboratory
Federal Engagement: DOE, Other
Preferred Point of Contact: Arvind Patel | apatel@tgate.com | 757-873-2700

https://sics-c.org/taurus-telesys/

TETRA TECH

ADVANCED NUCLEAR | SUPPLIER

Tetra Tech is a science, engineering, and construction firm that offers integrated services from front-end environmental science and planning through design, engineering, construction management, operations, and maintenance, of nuclear power plant systems. We currently employ SMEs from a variety of disciplines with full breadth knowledge of: reactor, safety, and balance of plant systems; nuclear quality assurance; operations (SRO); environmental assessment and permitting; and radioactive waste management.

Location: Pasadena, CA
Founded: 1966
Principal/CEO: Dan Batrack
Major Customers: Federal Aviation Admin., Nat'l Oceanic & Atmospheric Admin., US Agency for Int'l Development, US DOD (Air Force, Army, Navy, Army Corps of Engineers, Coast Guard), Dept. of Energy, Dept. of State, EPA, US Forest Service TerraPower, Exelon, Dominion, Southern Nuclear Co., Progress Energy, DTE Energy
Federal Engagement: DOE, ARPA-E, NRC, Other
Preferred Point of Contact: John Gonsky, Vice President, DOE and Nuclear Programs
John.gonsky@tetratech.com | 509-372-5814

https://www.tetratech.com

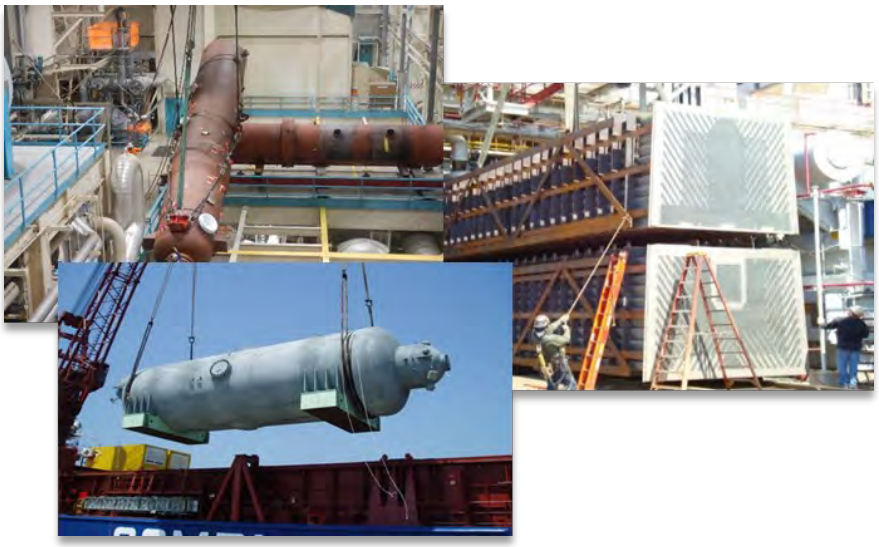
THERMAL ENGINEERING INTERNATIONAL (USA) INC. (TEi)

A BABCOCK POWER INC. SUBSIDIARY

ADVANCED NUCLEAR | SUPPLIER

Thermal Engineering International (TEi), a Babcock Power Inc. Subsidiary, boasts over 65 years of expertise and a global presence in designing and manufacturing high-quality heat transfer equipment for the nuclear industry. As an industry leader, TEi specializes in the design and fabrication of a wide array of heat exchangers including moisture-separator reheaters, feedwater heaters, and condensers, supported by domestic fabrication at our Joplin, MO facility and a team of seasoned heat exchanger experts at our La Palma, CA headquarters.

TEi holds certifications including ISO 9001:2015, ASME S-III N, NPT, NS, NA, ASME S-VIII and S-I, B31.1, and operates under a 10CFR50 Appendix B Quality Program. Notably, TEi's extensive experience with molten salt and liquid sodium heat exchangers positions us to support advanced reactor designs effectively.



Location: La Palma, CA
Founded: 1956
Principal/CEO: Ken Murakoshi
Major Customers: US Nuclear Utilities, EPC Firms, US Navy Fleet, and SMR/MMR Developers
Federal Engagement: DOE, GAIN
Preferred Point of Contact: Joseph Green, PhD, PE, Chief Nuclear Officer
josephgreen@babcockpower.com | 508-562-0894 | +44 07780447880

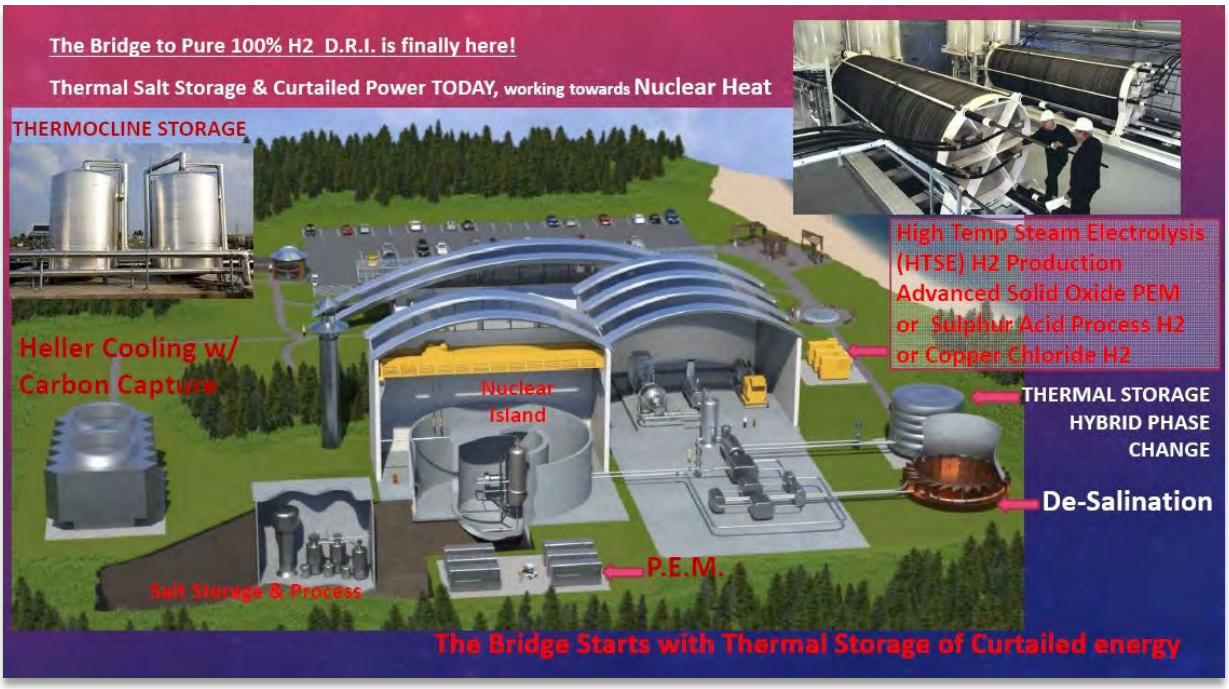
https://www.babcockpower.com/tei/

THORIUM ENERGY ALLIANCE

ADVANCED NUCLEAR | SUPPLIER

Thorium Energy Alliance
Thorium Will Power The World

Thorium Energy Alliance has been an international leader in promoting and advising on the use of Thorium in Fuels and Advanced Materials. TEA has helped set USA policy and has assisted public, private and university research efforts for over 15 years. TEA is a 501(c)3 Educational Advocacy organization.



Location: Harvard, IL
Founded: 2006
Principal/CEO: John Kutsch
Major Customers: Clients and membership are confidential. If a company or organization wishes to engage us, we can sign an NDA and discuss your needs.
Federal Engagement: DOE
Preferred Point of Contact: John Kutsch | director@thoriumenergyalliance.com | 312-303-5019

https://thoriumenergyalliance.com/

TIOGA

ADVANCED NUCLEAR | SUPPLIER

Tioga Nuclear® knows what it takes to supply critical components to the nuclear power industry. Founded on hard work and customer focus, Tioga has been delivering on expectations for more than 75 years

Tioga has continuously maintained our ASME Nuclear Certificate and QSC Material Organization status since 1982. Together, our personnel have more than 150 years of cumulative nuclear experience ranging from quality assurance to production.

Whether you need to procure unusual or difficult to find materials, meet special packaging and shipping standards or implement unique quality assurance requirements, Tioga Nuclear® has the experience and know-how to supply your needs. Whether you require pipe or plate, forgings or structural shapes, Tioga is the source for nuclear supply.

Combined with our unparalleled inventory of special metals, dedicated project management and global sourcing network, you can count on us to deliver the materials you need on-spec and on-schedule, with proper documentation.

We have been audited by NUPIC and NIAC and meet the requirements of ASME Section III, 10CFR50 Appendix B, N45.2, NQA-1, CAN3-N299 SERIES, & MIL-I-45208A.

Location: Philadelphia, PA
Founded: 1946
Principal/CEO: Bill Kotcher, President
Major Customers: Nuclear Utilities, DOE, National Labs, US Navy, Fabricators & OEMs
Federal Engagement: DOE
Preferred Point of Contact: Chris Burton, Business Development | cburton@tiogapipe.com | 440-479-3645

https://www.tiogapipe.com/

TRANSCO PRODUCTS INC.

ADVANCED NUCLEAR | SUPPLIER

Transco Products Inc. has been providing engineered Solutions to the Nuclear Industry for over 50 years. We offer cutting-edge robotic solutions, training and services for radiation identification and mitigation solutions, as well as Metal Reflective and Thermal Insulation Systems, Fire Protection Barriers, Penetration Seals and GSI-191 solutions.

Location: Streator, IL
Founded: 1980
Principal/CEO: Nathan Miller
Major Customers: Constellation Energy, Energy Solutions, Westinghouse, Framatome, Duke, Florida Power and Light, TVA, Talen Energy, USNC, X-Energy
Federal Engagement: DOE, GAIN, NRC
Preferred Point of Contact: Sean Hawks | seanh@transcoproducts.com | 312-896-8464

https://www.transcoproducts.com/

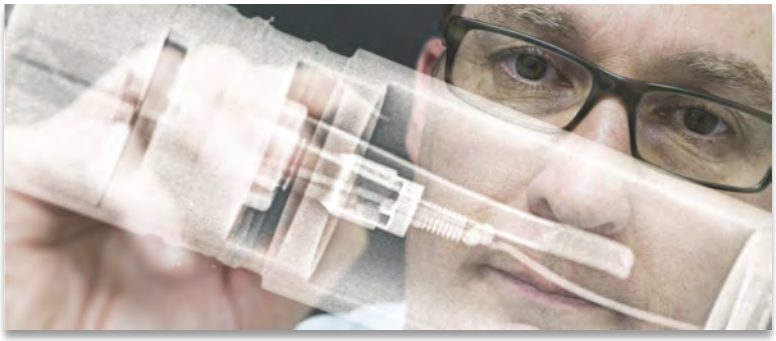
ULTRA ENERGY

ADVANCED NUCLEAR | SUPPLIER

Ultra Energy provides customers with solutions that give complete, long-term protection and control of reactor protection systems, while assisting them to increase the value derived from their investments over the lifetime of their asset. Ultra Energy offers a defense-in-depth approach to the nuclear industry focusing on systems requiring formal safety justification or qualification.

Our customers are developing small modular reactors, advanced reactors, constructing new reactors, extending the life of existing reactors and managing the lifecycle of radioactive material.

Ultra Energy has worked with nuclear and industrial customers for over 60 years. We are embedded in the national infrastructure, supporting long-term continuous operation of facilities with protection and control solutions that monitor and control temperature, pressure, radiation, and neutrons. In North America Ultra Energy has a role in maintaining the safety of ~80% of all US nuclear power plants as well as commercial and military nuclear facilities in operation across the globe.



Ultra Energy collaborates with partners in aviation, space, and industrial manufacturing.

Location: Worldwide
Founded: 1993
Principal/CEO: Ognjen Starovic, President
Major Customers: Non-disclosed
Federal Engagement: DOE, DOD, DHS, NRC
Preferred Point of Contact: Mark McCray | mark.mccray@ultra-nspi.com

https://www.ultra.group/

WILLIAM COOK CAST PRODUCTS

ADVANCED NUCLEAR | SUPPLIER

WILLIAM COOK CAST PRODUCTS

Part of the family-owned William Cook group based in Sheffield, England, William Cook Cast Products supports customers globally with its full range of ultra-high specification cast steel components and assemblies. A complete range of design, prototyping, NDE, machining, and fabrication facilities support the foundry activities. Fully compliant with 10CFR Part 50 Appendix B and ISO 19443 and well advanced with ASME MO qualification.

Location: Sheffield, England
Founded: 1840
Principal/CEO: Sir Andrew Cook
Major Customers: Non-Disclosed
Federal Engagement: Non-Disclosed
Preferred Point of Contact: United States: John Wohler | jwohler@william-cook.co.uk | 01-435-71-3599
UK& Europe: Nora Harris | nharris@william-cook.co.uk | +44 (0) 7711 684446

https://www.william-cook.co.uk/

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NATIONAL LABORATORIES

ARGONNE NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Argonne is a multidisciplinary science and engineering research center, where talented scientists and engineers work together to answer the biggest questions facing humanity, from how to obtain affordable clean energy to protecting ourselves and our environment. Ever since we were born out of the University of Chicago's work on the Manhattan Project in the 1940s, our goal has been to make an impact — from the atomic to the human to the global scale.

The laboratory works in concert with universities, industry, and other national laboratories on questions and experiments too large for any one institution to do by itself. Through collaborations here and around the world, we strive to discover new ways to develop energy innovations through science, create novel materials molecule-by-molecule, and gain a deeper understanding of our planet, our climate, and the cosmos.

Surrounded by the highest concentration of top-tier research organizations in the world, Argonne leverages its Chicago-area location to lead discovery and to power innovation in a wide range of core scientific capabilities, from high-energy physics and materials science to biology and advanced computer science.

Location: Lemont, IL
Founded: 1946
Principal/CEO: Paul K. Kearns, Laboratory Director
Federal Engagement: DOE-SC, DOE-NE, NNSA, DOE-EERE, NRC, ARPA-E, DOD, DHS
Preferred Point of Contact: Hussein S. Khalil | hkhalil@anl.gov | 630-252-7266

https://www.anl.gov

BROOKHAVEN NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Brookhaven National Laboratory applies its expertise and world-class facilities to pressing scientific questions about everything from the fundamental forces of nature to the complex interactions of ecosystems and the environment. Our cutting-edge explorations reveal processes that unfold across the smallest and largest scales of time and space imaginable—from the building blocks of matter to the edges of the universe itself.

With our extensive core research capabilities and rich history of scientific breakthroughs, we advance the mission of the U.S Department of Energy's Office of Science through the study of nuclear and particle physics to gain a deeper understanding of matter, energy, space, and time; energy and climate sciences to lead the United States towards a net-zero carbon economy; quantum information science and artificial intelligence research to transform communications and technology; and cross-disciplinary research to secure the Nation.

Location: Upton, NY
Founded: 1947
Principal/CEO: JoAnne Hewett
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Simerjeet K Gill | gills@bnl.gov

https://www.bnl.gov

IDAHO NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Idaho National Laboratory (INL) is the nation's lead laboratory for nuclear energy research, development, demonstration, and deployment. INL's nuclear energy researchers work in a broad range of technical areas including:

- Unparalleled irradiation and post-irradiation examination
- Fuel fabrication and materials testing facilities
- High-performance computing
- Integrated energy systems
- The nuclear fuel cycle

INL also leads many of the DOE's Office of Nuclear Energy initiatives and programs that connect its unique nuclear energy R&D capabilities with stakeholders. This includes the Gateway for Accelerated Innovation in Nuclear (GAIN), the National Reactor Innovation Center (NRIC), the Light Water Reactor Sustainability (LWRS) program and the Nuclear Science User Facilities (NSUF).

Location: Idaho Falls, ID
Founded: 1949
Principal/CEO: John Wagner, Laboratory Director
Federal Engagement: DOE, GAIN, ARPA-E, NSUF, NEUP, NRC
Preferred Point of Contact: Jess Gehin | jess.gehin@inl.gov | 208-526-3486

https://www.inl.gov

LAWRENCE BERKELEY NATIONAL LABORATORY

BERKELEY LAB

Lawrence Berkeley National Laboratory specialized in science and technology development for energy applications.

ADVANCED NUCLEAR | NATIONAL LABORATORY

Location: Berkeley, CA
Founded: 1931
Principal/CEO: Michael Witherell, Laboratory Directory
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Peter Hosemann | peterh@berkeley.edu | 510-717-5752

https://www.lbl.gov

LAWRENCE LIVERMORE NATIONAL LABORATORY

Lawrence Livermore National Laboratory

For more than 60 years, the Lawrence Livermore National Laboratory (LLNL) has applied science and technology to make the world a safer place.

Livermore's defining responsibility is ensuring the safety, security and reliability of the nation's nuclear deterrent. Yet LLNL's mission is broader than stockpile stewardship, as dangers ranging from nuclear proliferation and terrorism to energy shortages and climate change threaten national security and global stability. The Laboratory's science and engineering are being applied to achieve breakthroughs for counterterrorism and nonproliferation, defense and intelligence, energy and environmental security.

Location: Livermore, CA
Founded: 1952
Principal/CEO: Kim Budil, Laboratory Director
Federal Engagement: DOE, NRC, ARPA-E, GAIN, NNSA, DHS, Other
Preferred Point of Contact: Kiel Holliday | holliday7@llnl.gov | 925-422-4074

https://www.llnl.gov

LOS ALAMOS NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Los Alamos National Laboratory's mission is to solve national security challenges through scientific excellence. The Laboratory conducts fundamental nuclear materials research for future nuclear reactor designs and fuel cycle options, develops detection technologies needed for global nuclear materials management and supports nuclear energy initiatives through advanced modeling and simulation.

This work includes:

- Fundamental advances in nuclear fuels and cladding materials
- Nonproliferation safeguards
- Reactor concepts
- Reactor waste disposition

Location: Los Alamos, NM
Founded: 1943
Principal/CEO: Thom Mason, Laboratory Director
Federal Engagement: DOE, GAIN, NRC, ARPA-E
Preferred Point of Contact: DV Rao | dvrao@lanl.gov | 505-667-5098

https://www.lanl.gov

OAK RIDGE NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Oak Ridge National Laboratory (ORNL) is the U.S. Department of Energy's largest science and energy laboratory with signature strengths in computing, materials, neutron science, and nuclear science and technology. ORNL provides science and technology capabilities and services to extend the life of our existing light water reactor fleet, create and develop concepts for advanced reactor technologies, develop advanced nuclear fuels and fuel cycles, and support modernization of the U.S. nuclear regulatory infrastructure.

Location: Oak Ridge, TN
Founded: 1943
Principal/CEO: Stephen Streiffer, Laboratory Director
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Kenneth Tobin | tobinkwjr@ornl.gov | 865-574-5267
Andrew Worrall | worralla@ornl.gov | 865-576-9369

https://www.ornl.gov

PACIFIC NORTHWEST NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Pacific Northwest National Laboratory (PNNL) conducts research and development across the nuclear fuel cycle to support DOE and industry in development of advanced materials, advanced fuels and Gen IV reactors for the next generation of nuclear energy. Drawing on decades of expertise in nuclear science, engineering and regulation, along with its Category 2 Nuclear Facility assets, PNNL supports technology development across the TRL spectrum.

Location: Richland, WA
Founded: 1965
Principal/CEO: Steven Ashby. Laboratory Director
Federal Engagement: DOE, GAIN, NRC, ARPA-E, NNSA, DHS
Preferred Point of Contact: Mark Nutt | mark.nutt@pnnl.gov | 509-375-2984

https://www.pnnl.gov/nuclear-energy

SANDIA NATIONAL LABORATORIES

ADVANCED NUCLEAR | NATIONAL LABORATORY

Sandia National Laboratories

A Federally Funded Research and Development Center for the National Nuclear Security administration with a strong science, technology and engineering foundation enables Sandia's mission to develop advanced technologies to ensure global peace through a capable research staff working at the forefront of innovation, collaborative research with universities and companies and discretionary research projects with significant potential impact. Sandia National Laboratories' unique mission responsibilities in the nuclear weapons program create a foundation from which they leverage capabilities, enabling them to solve complex national security problems.

Location: Albuquerque, NM
Founded: 1949
Principal/CEO: Laura McGill, Laboratories Director
Federal Engagement: DOE, GAIN, ARPA-E, NRC, Other
Preferred Point of Contact: Richard Griffith | rogrif@sandia.gov | 505-844-8232
Michael Starr | mjstarr@sandia.gov

https://www.sandia.gov

SAVANNAH RIVER NATIONAL LABORATORY

ADVANCED NUCLEAR | NATIONAL LABORATORY

Savannah River National Laboratory (SRNL) has core competencies in nuclear materials management and advanced materials design, manufacture, characterization and testing. SRNL has many unique laboratory facilities enabling the safe study and handling of nuclear materials and nuclear fuel as well as ultra-sensitive measurement and analysis of radioactive materials.

Location: Aiken, SC
Founded: 1951
Principal/CEO: Johney Green Jr., Laboratory Director
Federal Engagement: DOE, GAIN, ARPA-E, NRC
Preferred Point of Contact: Thad Adams | thad.adams@srnl.doe.gov | 803-725-5510

https://www.srnl.gov/

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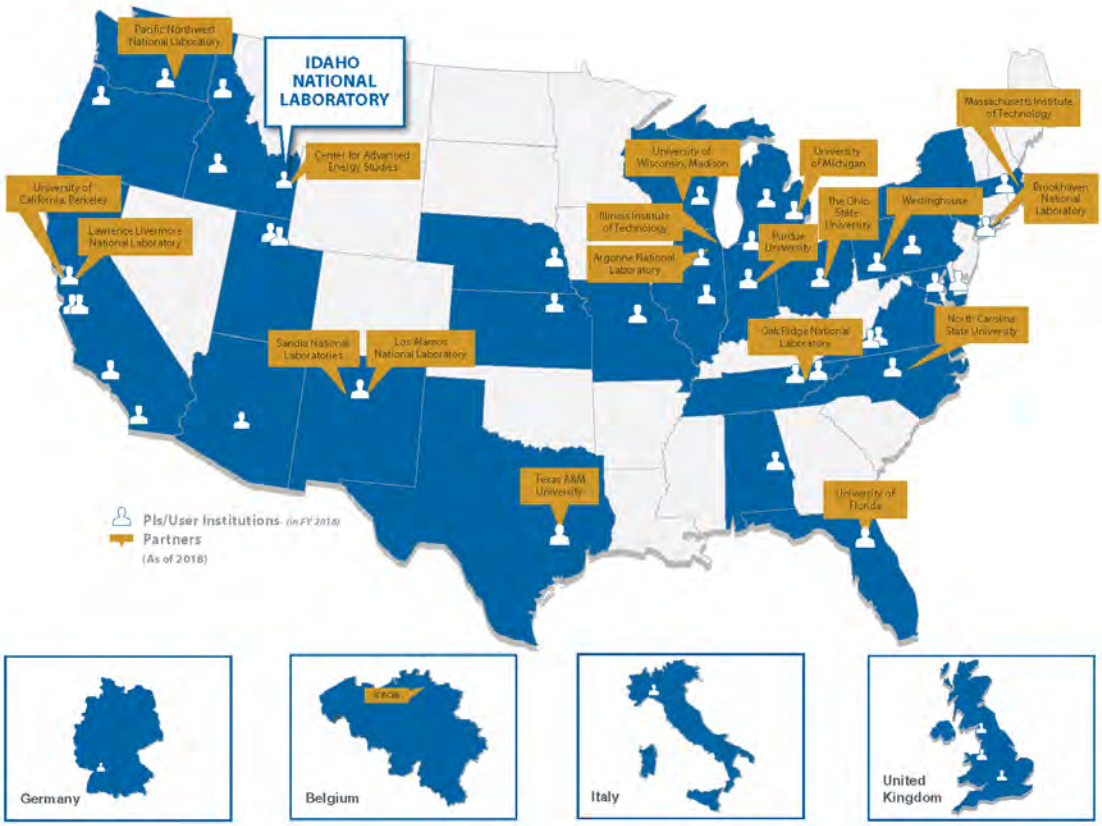
RESOURCES

NUCLEAR SCIENCE USER FACILITIES

Nuclear Science User Facilities

The Nuclear Science User Facilities (NSUF) offers unparalleled research opportunities for nuclear energy researchers. Users are provided access (at no cost to the researcher) to world-class nuclear research facilities, technical expertise from experienced scientists and engineers, and assistance with experiment design, assembly, safety analysis and examination.

Access to NSUF's 49 facilities at 21 partners institutions is awarded through two competitive peer-reviewed processes, Consolidated Innovative Nuclear Research (CINR) and the Rapid Turnaround Experiment (RTE). NSUF staff is available to help any researcher who desires to submit a proposal. Submitted proposals should be consistent with the DOE-NE mission and its programmatic interests. These include light water reactor sustainability, fuel cycle research and development, advanced modeling and simulation, and advanced reactor technology programs. All NSUF research must be non-proprietary and results are expected to be published.



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https://nsuf.inl.gov/

U.S. DEPARTMENT OF ENERGY LOAN PROGRAMS OFFICE

While significant capital is available for decarbonization technologies, these projects can still lack access to adequate debt capital. LPO fills this gap in commercial deployment by serving as a bridge to bankability for innovative and high-impact energy technologies, providing them with access to needed loans and loan guarantees when private lenders cannot or will not until a given technology has reached full market acceptance.

LPO provides a bridge to bankability for those technologies to cross the final milestones to commercialization:

- The first commercial-scale deployment, to address the engineering scale-up challenges and demonstrate technology effectiveness at scale;
- The next few commercial-scale deployments, to demonstrate the ability to mitigate construction risks and address engineering optimization;
- Commercial scale-up, to progress along the learning curve, lower costs, and establish customer demand;
- Commercial debt market education, to overcome private debt market misunderstanding and gain commercial debt access.

The starting point of LPO's committed partnership with its borrowers is through the office's Outreach and Business Development Division, which brings together an internal team of energy experts with deep experience across the financial, technical, legal, risk, and environmental fields to help borrowers move through pre-application consultations and the application process, and through the due diligence and underwriting process led by LPO's Origination Division. After loan closing, LPO's Portfolio Management Division maintains this borrower partnership through construction, project operation and maintenance, and eventual final loan repayment. This approach is essential to achieving project milestones and overall project success while protecting taxpayer interests. By engaging early and often with applicants, the LPO team maximizes transparency and manages risk with a combination of proactive monitoring, discussions of emergent issues, and action to maximize project success, which can include approving distributions or equity ownership sales.

Location: Washington, DC
Preferred Point of Contact: lpo@hq.doe.gov ? 202-287-5900

https://www.energy.gov/lpo/loan-programs-office

ACRONYM LIST

A&E	Architecture & Engineering
ACU	Abilene Christian University
AI/ML	Artificial Intelligence and Machine Learning
AISC	American Institute of Steel Construction
AMS	Analysis & Measurement Services
ANL	Argonne National Laboratory
ANSI	American national Standards Institute
API	American Petroleum Institute
APS	Arizona Public Service
AR	Advanced Reactor
ARDP	Advanced Reactor Demonstration Program
ARIS	Advanced Reactor Information System
ARPA-E	Advanced Research Projects Agency – Energy
ART	Advanced Reactor Technology
ASME	American Society of Mechanical Engineers
ASMR	Advanced Small Modular Reactor
ASNT	American Society of Nondestructive Testing
ASTM	American Society for Testing and Materials
AWS	American Welding Society
BANR	BWXT Advanced Nuclear Reactor
BEA	Battelle Energy Alliance
BNL	Brookhaven National Laboratory
BWR	Boiling Water Reactor
CAD	Computer-Aided Design
CAE	Computer-Aided Engineering
CAM	Computer-Aided Manufacturing
CANDU	Canada Deuterium Uranium
CANM	Center for Advanced Nuclear Manufacturing
CAS	Competitive Access Systems
CCW	Component Cooling Water
CECR	Controlled Electron Capture Reaction
CFD	Computational Fluid Dynamics
CFR	Code of Federal Regulations
CGD	Commercial Grade Dedication

ACRONYM LIST (Cont.)

CINR	Consolidated Innovative Nuclear Research
CNSC	Canadian Nuclear Safety Commission
CNX	Consolidated Nuclear Security
COFRAC	French Accreditation Committee
COLA	Construction and Operating License Application
COTS	Commercial-Off-The-Shelf
CTC	Concurrent Technologies Corporation
CTD	Composite Test Device
DARPA	Defense Advanced Research Projects Agency
DCF	DC Fabrications
DHS	Department of Homeland Security
DNES	Dubose National Energy Services
DOD	Department of Defense
DOE	Department of Energy
DOE-EERE	Department of Energy-Office of Energy Efficiency and Renewable Energy
DOE-NE	Department of Energy-Nuclear Energy
DOE-SC	Department of Energy-Office of Science
DOI	Department of Interior
DOJ	Department of Justice
DOT	Department of Transportation
DTC	Direct to Consumer
EBR-II	Experimental Breeder Reactor II
EDG	Emergency Diesel Generator
EFI	Ed Fagan Inc.
EM^2	Energy Multiplier Module
EMC^2	Engineering Mechanics Corporation of Columbus
EMI	Electromagnetic Interference
EPA	Environmental Protection Agency
EPC	Engineering, Procurement, and Construction
EPFC	Engineering, Procurement, Fabrication, Construction
EPM	Engineering Planning and Management
EPRI	Electric Power Research Institute
ESBWR	Economic Simplified Boiling Water Reactor

ACRONYM LIST (Cont.)

ETEBA	Energy, Technology, and Environmental Business Association
ETIC	Engineering Testing, Inspection, and Certification
FAI	Fauske & Associates Inc.
FATE	Flow, Aerosol, Thermal, and Explosion
FCM	Fully Ceramic Microencapsulated
FEA	Finite Element Analysis
FEI	Flibe Energy Inc.
FEMA	Federal Energy Management Agency
FHR	Fluoride Salt-Cooled High-Temperature Reactor
FME	Foreign Material Exclusion
FMEA	Failure Modes and Effects Analyses
FMR	Fast Modular Reactor
FOAK	First of a Kind
FPGA	Field-Programmable Gate Array
FRs	Fast Reactors
GA	General Atomics
GA-EMS	General Atomics Electromagnetic Systems
GAIN	Gateway for Accelerated Innovation in Nuclear
GCR	Gas Cooled Reactor
GE	General Electric
GEH	GE Hitachi
GEN III	Generation III
GEN IV	Generation IV
GFR	Gas-Cooled Fast Reactor
GNF	Global Nuclear Fuel
GSA	General Services Administration
GSI	Generic Safety Issue
GWe	Gigawatt Electric
GWhe	Gigawatt Hour Electric
HEI	Heat Exchange Institute
HELB	High Energy Line Break
HII	Huntington Ingalls Industries
HIPS FPGA	Highly Integrated Protection System Field Programmable Gate Array

ACRONYM LIST (Cont.)

HTGR	High-Temperature Gas Reactor
HTRs	High Temperature Reactors
HTSD	High Temperature System Designs
HVAC	Heating, Ventilation, and Air Conditioning
I&C	Instrumentation and Control
IAEA	International Atomic Energy Agency
IES	Integrated Energy Storage
IMSR	Integral Molten Salt Reactor
INFUSE	Innovation Network for Fusion Energy
INL	Idaho National Laboratory
IPOs	Initial Public Offerings
IPyC	Inner Pyrolytic Carbon
IR	Infrared
ISEA	International Safety Equipment Association
ISL	Information Systems Laboratories
ISO	International Organization for Standardization
KAERI	Korean Atomic Research Institute
KHNP	Korea Hydro & Nuclear Power
kW	Kilowatt
kWe	Kilowatt Electric
LANL	Los Alamos National Laboratory
LBNL	Lawrence Berkeley National Laboratory
LEA	Premium Calibration Standard
LENR	Low Energy Nuclear Reaction
LEU	Low Enriched Uranium
LF-MSR	Liquid-Fueled Molten Salt Reactor
LFR	Lead-Cooled Fast Reactor
LFTR	Liquid-Fluoride Thorium Reactor
LLC	Limited Liability Company
LLNL	Lawrence Livermore National Laboratory
LLWR	Low Level Waste Repository
LMR	Liquid Metal-Cooled Reactor
LOCA	Loss of Coolant Accident
LPO	Loan Programs Office
LWRS	Light Water Reactor Sustainability

ACRONYM LIST (Cont.)

MARVEL	Microreactor Applications Research Validation and Evaluation
MLEP	Master-Lee Engineered Products
MMR	Micro Modular Reactor
MPM	MP Machinery
MSFR	Molten-Salt Fast Reactor
MSNB	Molten Salt Nuclear Battery
MSRE	Molten Salt Reactor Experiment
MSRs	Molten Salt Reactors
MSTIR	Modular Small Thorium-based Integral Reactor
MTRN	Materion Corporation
MWe	Megawatts Electric
MWt	Megawatts Thermal
MWth	Megawatts Thermal
NA / NPT / NS	ASME Nuclear Component Certificates
NAS	Numerical Advisory Solutions
NASA	National Aeronautics and Space Administration
NASDA	NASA and National Space Development Agency
NDA	Non-Disclosure Agreement
NDA	Nuclear Decommissioning Authority
NDE	Non-Destructive Examination
NEAMS	Nuclear Energy Advanced Modeling and Simulation
NEC	Nuclear Energy Consultants
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act
NEUP	Nuclear Energy University Program
NIAC	Nuclear Industry Assessment Corporation
NIH	National Institute of Health
NIST	National Institute of Standards and Technology
NNL	Navel Nuclear Laboratory
NNP	New Nuclear Power
NNSA	National Nuclear Security Administration
Non-LWR	Non-Light Water Reactor
NPPD	Nebraska Public Power District
NPT	National Pipe Thread

ACRONYM LIST (Cont.)

NQA	Nuclear Quality Assurance
NRC	Nuclear Regulatory Commission
NRIC	Nuclear Reactor Innovation Center
NSSS	Nuclear Steam Supply System
NSUF	Nuclear Science User Facility
Nuclear ROSE	Nuclear Regulatory Oversight, Safety, and Environmental
NUPIC	Nuclear Procurement Issues Committee
NUREG	U.S. Nuclear Regulatory Commission technical report designation
NVE	NuVision Engineering
NYSE	New York Stock Exchange
OEM	Original Equipment Manufacturer
OPG	Ontario Power Generation
OPyC	Outer Pyrolytic Carbon
ORCA	Off-grid Reactor for Continuous and Autonomous Application
ORNL	Oak Ridge National Laboratory
OT	Operational Technology
PANYNJ	Port Authority of New York and New Jersey
PARCS	Purdue Advanced Reactor Core Simulator
PAS	Portable Air Sampler
PASNY	Power Authority of State of New York
PNNL	Pacific Northwest National Laboratory
PRA	Probabilistic Risk Assessment
PRISM	Power Reactor Innovative Small Module
PSPR	Principal Seismic Probabilistic Risk
PSStech	Power System Sentinel Technologies
PVS	Paxton & Vierling Steel
PWR	Pressurized Water Reactor
QAP	Quality Assurance Program
QSC	Quality System Certificate
R&D	Research and Development
RADTRAD	RADionuclide Transport, Removal, and Dose
RELAP-5	Reactor Excursion and Leak Analysis Program
RFI	Radio Frequency Interference
RHR	Residual Heat Removal

ACRONYM LIST (Cont.)

RTE	Rapid Turnaround Experiment
S&P	Standard & Poor's
SBIR-STTR	Small Business Innovation Research-Small Business
SC-HTGR	Steam Cycle High-Temperature Gas Reactor
SFR	Sodium-Cooled Fast Reactor
SGH	Simpson Gumpertz & Heger
SiC	Silicon Carbide
SLOTH	Strategic Logistical Operation for Onsite Task Handling
SME	Subject Matter Expert
SMR	Small Modular Reactor
SNL	Sandia National Laboratories
SRMC	Savannah River Missions Completion
SRNL	Savannah River National Laboratory
SRNS	Savannah River Nuclear Solutions
SRO	Senior Reactor Operator
SRS	Savannah River Site
SSHAC	Senior Seismic Hazard Analysis Committee
STUK	Säteilyturvakeskus (Finland Radiation and Nuclear Safety Authority)
SwRI	Southwest Research Institute
SNAP	Symbolic Nuclear Analysis Package
TA	Test Apparatus
TEA	Thorium Energy Alliance
Tei	Thermal Engineering Industries
TEMA	Tubular Exchanger Manufactures Association
TIC	Testing, Inspection, Certification
TOFD	Time of Flight Diffraction
TRACE	TRAC/RELAP Advanced Computational Engine
TRIGA	Training, Research, Isotopes, General Atomics
TRISO	TRi-structural ISOtropic
TRL	Technology Readiness Level
TVA	Tennessee Valley Authority
UAMPS-CFPD	Utah Associated Municipal Power Systems – Carbon Free Power Project
UCLE	U.S. Nuclear Corp.

ACRONYM LIST (Cont.)

UCOR	United Cleanup Oakridge
UCSD	University of California San Diego
UNR/NTF	University of Nevada –Nevada Terawatt Facility
UO_2	Uranium Dioxide
UPS	Uninterruptible Power Systems
US	United States
USA	United States of America
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USNIC	United States Nuclear Infrastructure Council
UT	Ultrasonic Testing
V&V	Verification and Validation
WBENC	Women's Business Enterprise National Council
xLPR	Extremely Low Probability of Rupture
XMR	Extra Modular

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