



# PINAKASHIELD TECH

<b>Role</b>	Research Engineer - AI & Cloud Networks	<b>Team</b>	R&D Dept.
<b>Contract Type</b>	Freelance (12-Month Contract)	<b>Engagement/ Location</b>	Part-Time / Fully-Remote

## JOB SUMMARY

We are looking for a curious and technically versatile **Research Engineer** to join our R&D department at **PinakashieldTech**. This role sits at the cutting-edge intersection of Artificial Intelligence and Next-Gen Networking. This is a perfect opportunity for a researcher or data scientist looking to bridge the gap between AI modeling and Next-Gen infrastructure, specifically within critical operational environments.

## JOB RESPONSIBILITIES

Key area	Tasks
<b>AI/ML Research and Development</b>	Research, design, and implement Machine Learning algorithms relevant to network optimization, automation, and threat anomaly detection. Basic understanding about the Federated Learning framework (e.g., Flower).
<b>Infrastructure &amp; Deployment</b>	Utilize DevOps best practices to containerize AI applications using Docker and manage orchestration via Kubernetes.
<b>Network Architecture</b>	Drive projects involving Cloud-Edge computing architectures, focusing heavily on latency reduction and computational optimization for industrial environments.
<b>Emerging Tech</b>	Build and contribute to proofs-of-concept involving Software Defined Networking (SDN) and Network Function Virtualization (NFV).
<b>Security by Design</b>	Apply basic network security principles for IT-OT (Operational Technology) and ICS (Industrial Control Systems) to ensure all research prototypes are inherently secure.
<b>EU Consortium Collaboration</b>	Actively participate and represent PinakashieldTech in virtual meetings and technical syncs for European Union-funded projects. You will present research progress, align with international cross-border partners, and contribute to technical deliverables remotely.

# QUALIFICATIONS

## Educational and Experience

- BS/B.Tech/BE or MS/M.Tech/ME in Computer Science, Electrical Engineering, or a related field (currently enrolled PhD students with strong portfolios are welcome).
- Strong proficiency in Python and frameworks like TensorFlow, PyTorch, or Scikit-learn, Flower.
- Hands-on experience with Docker containerization and a foundational understanding of Kubernetes clusters.
- Solid grasp of the OSI model, TCP/IP, and the core concepts behind SDN/NFV.
- Conceptual understanding of distributed computing paradigms (Cloud vs. Edge).

## Skills & Competencies:

- Excellent verbal and written English communication skills, with the ability to present complex technical data clearly over virtual conferencing platforms to international stakeholders.
- Experience with Linux administration.
- Ability to work in a team environment and collaborate with other associates.



### Nice to have

- Awareness of the **NIS2** directive and **IEC 62443** standards.

## Job Number and Application Details

**Job Number:** [pst#20260101](#)

If you are interested in applying for this position, please prepare your **resume**, **transcripts**, **certificates**, and a **motivational letter**. Send your application materials to the contact details provided below:

**Contact Email:** [info@pinakashield.com](mailto:info@pinakashield.com)

We look forward to receiving your application and learning more about the unique contributions you can bring to our team at PinakashieldTech.