POWERGRID CENTER OF EXCELLENCE IN CYBERSECURITY in POWER TRANSMISSION AND GRID OPERATION
Indian Institute of Science, Bangalore-560012

Job Description

Foundation for Science Innovation and Development (FSID) at the Indian Institute of Science (IISc) and Power Grid Corporation of India Limited (PGCIL) have entered into a partnership to establish the "POWER GRID Center of Excellence (CoE) in Cybersecurity in Power Transmission and Grid Operation", to enable continuous R&D on cybersecurity program matching with the emerging requirements in the field of transmission and grid operation that would lay a strong foundation for achieving excellence in Cybersecurity of Operational Infrastructure. This facility would engage in R&D aspects of the cybersecurity of power systems.

Designation	Technical officer
Responsibilities	Carry out the operational aspects of the new "Power grid center of excellence in cybersecurity" an interdisciplinary world-class R&D center at IISc. This includes the following. • Assist to develop security architectures, policy frameworks, test procedures, and audit mechanisms for equipment and protocols used in power grid operational environments • Track the status of short term and futuristic R&D projects as per the plan, take corrective actions wherever necessary • Assist to prepare RFP documents and drive vendor evaluations, where the procurement of services/solutions is necessary • Interact with IISc faculty, relevant industry/National R&D labs and research students to achieve the goals of the CoE • Utilize the vast experience and knowledge to prepare the guidelines, white papers, patent applications, and technical reports for ever changing cyber security requirements for end-users in power transmission utility • Assist in setting of labs and for cybersecurity testing and benchmarking of the various assists used in electric utility automation & communication • Work closely with academia, utilities, and various industry professionals to prepare reference models for cybersecure architectures for power transmission utilities • Train and mentor staff of the power utilities on cyber security aspects
Employment type	Full-time, fixed-term contract for a period of three years, initially with probation of six months. Based on requirements and performance, the contract can be extended by mutual consent.
Remuneration	Commensurate with experience and skill set, competitive with industry
Location	IISc, Bengaluru
Education	BE/B.Tech in Electrical, Electronics, or Computer Science or allied disciplines. M.Tech/PhD is preferred.

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Experience level	Overall relevant experience of 5+ years with at least 2 years in R&D project experience

Technical skills	• Complete understanding of the Electric utility automation system, starting from process level to control center level
	• Experience in designing and implementing cyber security technologies for electric transmission utility automation systems
	• Thorough understanding of the communication protocols and methods used to realize a utility automation system
	• Understanding of the different software systems, embedded systems (IED/RTU), cloud computing, IoT, Desktop software etc
	• Experience in development of the communication protocols, design and implementation of the automation system for electric transmission systems
	• Good understanding of the cyber security standards and technologies
	    ▪ IEC62351, IEC62443, NIST etc.
	    ▪ TLS, encryption, firewall, antivirus etc

Management Skills	• Knowledge of project management principles, and processes, strong interpersonal skills, ability to work in small teams and manage projects independently • Excellent verbal and written communication in Hindi and English. • Strong moral compass that will uphold organizational values of public service, ethics, and integrity • Ability to interact with and manage stakeholders in academia, and industry
Selection Process	After the closing date, the applications will be screened, and shortlisted candidates will be called for personal interviews. IISc and FSID reserve the right to interview only a subset of the candidates.
How to Apply	Please send your CV with the **email Subject Line: PGCOE Technical officer,** a cover letter, and any other relevant supporting documents as a single PDF document to apply.pgcoe@iisc.ac.in Or call Ph. No.+91 80 22933556.
Closing date	**March 25th, 2023, 11.59 pm.**