

**POWER GRID 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.

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| Designation | Center Head (CEO) |
| Responsibilities | <p>Lead 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.</p> <ul style="list-style-type: none"> • Set up and streamline the processes in operationalizing the CoE initiatives and their day-to-day management. • Assist the executive committee in achieving the CoE goals. • Strategize, identify, and define immediate, short term and futuristic R&D projects, prepare action plans, implement and maintain program initiatives adhering to COE objectives. • Monitor the global cybersecurity landscape for relevant developments in power system applications. • Develop the technical team, and guide and mentor the members to develop security architectures, policy frameworks, test procedures, and audit mechanisms for equipment and protocols used in power grid operational environments. • Track project status, provide updates to various levels of stakeholders and take corrective actions wherever necessary. • 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, funding offices at IISc, and research students to achieve the goals of the CoE. • Disseminate knowledge through national and state forums for policymaking, scientific publications, white papers, patent applications, and technical reports. |
| 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. |

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| | A management degree or Master's degree or above in engineering is a plus |
| Experience level | <ul style="list-style-type: none"> Overall relevant experience of 5+ years with at least 2 years in Project / Program Management and R&D experience. These could be relaxed in the case of candidates with an exceptional track record. |
| Technical skills | <ul style="list-style-type: none"> Experience in cybersecurity of equipment and protocols used in power substations, industrial control systems, industrial networks, operational technology, process engineering, SCADA systems, and industrial hardware. Experience on the IEC61850 implementation for process bus and station bus and relevant SW/HW development will be a plus. Knowledge of security vulnerabilities, security measures threat modeling approaches and tools. Understanding of network attacks, DDoS, encryption, authentication, logging and log analysis, security rules, and policies, and knowledge of related protocols (e.g., TCP/IP, TLS, routing protocols). Understanding of database security, data encryption, data desensitization, data backup, and managing identity and access such as role-based access control. Exposure to cybersecurity audit mechanisms of OT systems, exposure to standards-based security assessment (ISO 27001, IEC62443 etc.), cybersecurity frameworks such as NIST, NERC CIP etc. |
| Management Skills | <ul style="list-style-type: none"> Knowledge of programme management principles, and processes, strong interpersonal skills, people management and mentoring 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 senior-level stakeholders in government, 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 | <p>Please send your CV with a cover letter and any other relevant supporting documents as a single PDF document to apply.pgcoe@iisc.ac.in.</p> <p>For any queries, please email execom.pgcoe@iisc.ac.in (preferred)</p> <p>Or call Ph. No.+91 80 22933556.</p> |

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| Closing date | November 20 ²⁷ th , 2022, 11.59 pm. Extended till 27 November |
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