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Title: Postgraduate(s) in Information Technology PGT-3333

Description:

Application Deadline: 17/05/2026

Department: Science & Integration Department

Division / Program: Central Integration Division

Job Grade: P1 (**SALARY SIMULATOR**)

Language Requirements: Fluent in English (written & spoken)

Contract Duration: 2 years

*The ITER Organization is opening multiple vacancies for postgraduates. The selection process will be conducted with the objective of filling **multiple positions**, also with the purpose of drawing up a reserve list of rostered candidates for future vacant positions.*

The Postgraduate Program offers early-career professionals the opportunity to gain practical experience in an international environment and contribute to meaningful work. It is designed for recent postgraduates who want to strengthen their technical foundations, develop professional skills, and grow through hands-on responsibilities within a team.

Overview

Are you looking for an exciting **early-career professional opportunity** at the heart of an ambitious fusion energy project?

Join us as an **IT Officer** where you will play a pivotal role in supporting ITER IT ecosystem and deliver IT solutions to production. Your contribution will empower 15 000 users worldwide working together to achieve the ITER project.

Depending on the scope of activity, your goals may include:

- Designing and developing cutting-edge AI solutions that can help ITER automate business processes and improve productivity.

- Collaborating with engineers to support ITER construction through impactful AI projects.
- Contributing to the operation and maintenance of IT infrastructure: datacenters, central systems, working environment, network, telecommunications / videoconferencing and cybersecurity
- Configuring, customizing or administrating our IT project tools solutions (ITER Collaborative Platform (ICP), CAD/Digital Plant, ERP, Scheduling, Collaboration and Communication, etc.)

Typical Key Duties and Responsibilities

- Designs, develops, deploys and maintains AI solutions suited to project requirements to streamline workflows, automate routine tasks, and boost overall productivity across the organization.
- Preprocesses and analyses data and train/fine-tune AI models.
- Collaborates with cross-functional teams to translate business needs into technical solutions.
- Monitors deployed systems, troubleshoots issues, and implements improvements as needed.
- Coordinates IT projects and executes the implementation from conceptual state to full production
- Supports the digitalization of end-to-end business processes by implementing solutions through configuration or customization on our projects tools with innovative ideas and proposals on automation, compatible with the existing or planned IT infrastructure
- Provides infrastructure service with focus on security, scalability and performance;
- Stays current with advancements in AI and related technologies. Promote and share AI skills within the organization.

Please note that job descriptions cannot be exhaustive, and the staff member may be required to undertake other duties, which are broadly in line with the above primary responsibilities.

Experience, Competencies and Knowledge

Essential:

- **Experience (incl. internship)** in elements of design, development, deployment and maintenance of IT solutions suited to project requirements.
- **Artificial Intelligence and Machine Learning:** Applying or implementing Artificial Intelligence and Machine Learning concepts with good understanding of different AI models and algorithms, hands-on experience with model training, fine-tuning and serving
- **Software Development:** Knowledge of the software development lifecycle including specification, production, testing, and deployment.
- **Systems Administration:** Knowledge of IT servers, network, database, telecommunications, or security administration.
- **Programming skills:** Excellent programming skills (Python, C# or similar language).
- Strong interest in AI and new technologies, transforming concepts into solutions.
- **Interpersonal Savy:** Ability to develop effective relationships with others, including excellent English skills in both oral and written communication.
- **Nimble Learning:** Applies lessons from different experiences to new situations and is curious to ask questions to learn from others.

Desirable:

- Developing AI solutions such as LLM reasoning, RAG pipeline, multi-agent system and MCP.
- **Problem solving:** assess problems, identify root causes, and reach practical solutions in a consistent way to reach project objectives.
- Experience deploying and monitoring AI solutions on cloud platforms (e.g Azure/AWS/GCP).

Qualifications

- Master's degree or equivalent in AI, Computer Science, IT field or other relevant disciplines.
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The following items apply to all jobs and job holders for the duration of tenure at ITER

Organization:

- **The CARE Values are a framework of principles that guide our actions and define the culture and spirit of the ITER Project:**

Collaboration: We collaborate with commitment and flexibility using the power of teamwork, building partnerships, and working with others to reach shared objectives;

Accountability: We are accountable for the whole project - we take responsibility for our specific actions and are transparent in our daily work, holding self (ourselves) and others accountable to meet commitments;

Respect: We treat each other with respect and dignity at all times, knowing that all of us belong here. We appreciate the value that our multicultural and diverse community brings to the ITER Project;

Excellence: We are driven by excellence; we are agile and innovative while maintaining the highest standards of safety, quality and integrity;

- **ITER Core Technical Competencies:**

- 1) **Nuclear Safety, Environment, Radioprotection and Pressured Equipment**
- 2) **Occupational Health, Safety & Security**
- 3) **Quality Control & Quality Assurance Processes**

- **Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members;**
- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
- May be requested to perform other duties in support of the project as defined by your line manager, and when relevant upon the request of the matrix manager;
- May be requested to work outside the ITER Organization reference working hours, including nights, weekends and public holidays, due to business needs - this may include on-call, shift work, etc.
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- For staff expected to perform on-call, shift hours, or other work outside ITER Organization reference working hours, including nights, weekends, and public holidays, **the possession of a**

driving license valid in France is required. no commuting vehicle will be provided by the ITER Organization.

- Informs management of any important and urgent issues that cannot be handled by line or matrix management and that may jeopardize the achievement of the Project's objectives;

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