

## Career Opportunities: ITER Postdoctoral Fellowships 2026 (8276)

Requisition ID 8276 - Posted 12/01/2026 - France, 13067 St Paul Lez Durance Cedex - Science and Technology Expertise - New Posting

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Fusion, the nuclear reaction that powers the sun and the stars, is a promising long-term option for a sustainable, non-carbon emitting global energy supply.

The ITER Organization (IO), based in the southern France, welcomes best talents who can together prepare the way to this new energy in a truly multi-cultural work environment.

We offer challenging assignments in a wide range of areas and encourage applications from candidates with all levels of experience. Applications from under-represented ITER Members' nations and women candidates are strongly encouraged, as IO strongly believes that a diversified, equitable, and inclusive workplace is crucial in solving one of the most complex scientific and engineering projects in the world today.

As the IO attracts and retains people coming from a vast array of different backgrounds and cultures, discrimination and exclusion cannot be tolerated. The IO believes it is our diverse perspectives and background that gives unique strength and value to the ITER mission, regardless of race, member nation, gender, religion, status, sexual orientation, or disability - all are welcome and respected at ITER.

The IO is committed to fostering a fair and equitable environment across all areas of the project, including compensation and benefits.

ITER CARE Values (Collaboration / Accountability / Respect / Excellence):

We perform our work with care, we care for the well-being of colleagues, our families and ourselves, and we care about the health of the planet for generations to come. CARE drives our work and our behaviors at ITER.

To see why ITER is a great place to work, please look at this [video](#)

**Application Deadline:** 01/03/2026

**Department:** Science & Integration Department

**Job Grade:** P1 ( [SALARY SIMULATOR](#) )

**Language Requirements:** Fluent in English (written & spoken)

**Contract Duration:** 2 years

*The ITER Organization is opening multiple vacancies for Postdoctoral Researcher. The selection process will be conducted with the objective of filling multiple positions (5 positions for Monaco Postdoc & 3 positions for Korean Postdoc) with also the purpose of drawing up a reserve list of rostered candidates for future vacant positions. The reserve list initially remains valid for two years, with the possibility of extension at the Director General's discretion.*

*(see more details about these openings at [Monaco/ITER and ITER Postdoctoral Fellowships](#))*

### Overview

Are you looking for an exciting opportunity at the heart of an ambitious fusion energy project? Join us as a **Postdoctoral Researcher** where your goals will include:

- Pursuing a program of original research in an area of fusion science or technology relevant to the ITER Project;
- Contributing effectively to progress in the area of fusion science or technology defined by the agreed research or engineering program at ITER;
- Producing accurate and innovative studies within the defined timeline, writing reports and giving presentation on these researches or cases.

*The principal motivation of the Research Fellowships is the development of excellence in research of fusion science and technology within the ITER framework for the Post-doctoral researchers.*

*The Postdoctoral Fellowship program allows the best young researchers to participate in one of the great scientific and technical challenges of the 21st century and to work closely with leading experts in fusion science and technology within a unique international working environment.*

### Key Duties and Responsibilities

#### Primary Responsibilities:

- Carries out original research under an agreed program in support of the development of fusion energy in many areas of fusion science and technology, including, but not limited to:
  - Agentic AI for the Exploitation of Fusion Simulations and Experiments
  - Study of Shattered Pellet Injectors (SPI) mitigated disruptions
  - Coupled free-boundary core-edge-SOL transport modelling of ITER scenarios
  - MHD simulations of Tungsten transport in small ELM regimes
  - Quasi-symmetric (QS) error field correction in ITER
  - Advancing modelling framework for tritium inventory management in ITER
  - Integrated Plasma Scenario Modelling
  - Application of the Pulse Design Simulator (PDS) to model main ion and impurity transport and control
  - Optimal path for ITER fast terminations
  - Physics basis for runaway electron beam benign termination on ITER
  - Edge plasma simulations to support the ITER Research Plan and PDS development
  - Developing a Digital Twin for Fusion Energy
  - Integrated Diagnostics and Data Fusion for Dust, Erosion, and Tritium in ITER
  - Design and verification of the Optical/Infrared/Microwave ITER calibration system
  - Automated component handling
  - Neutron Transport Modelling for ITER Neutron Diagnostic Calibration

#### Additional Responsibilities:

- Takes an active role collaborating with researchers working in related areas
- Publishes the results of research in appropriate conference proceedings and refereed journals.

*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

### Essential:

- **Proven experience** in scientific or engineering research in one of the areas listed in “Key Duties and Responsibilities”.
- Demonstrating ‘out of the box’ thinking and ability to adapt easily.
- Building partnerships and working with other scientists or engineers to identify and evaluate relevant sources of information.
- **Writing & Presentation:** Experience of writing clear technical documentation and publishing or presenting technical and/or scientific reports on specific topics

### Desirable:

- Using computational methods to perform physics or engineering analysis.
- Using common scientific computing languages (e.g. Fortran, C).
- **Organizational Savvy:** maneuvering comfortably through complex policy, process, and people related organizational dynamics.
- **Nimble Learning:** actively learning through experimentation when tackling new problems, using both successes and failures as learning fodder.

## Qualifications

### Essential:

- PhD in Science, Technology and/or Engineering with specialization in a subject related to the ITER Project.  
*The applicant must have received their PhD since 1 January 2023, or must receive their PhD prior to the start date of the Fellowship at the ITER Organization.*

## How to Apply

- Applicants are requested to apply through the ITER.org website.
- The e-Recruitment system will require you to:
  - 1) Fill-in an online application file
  - 2) Upload your Curriculum Vitae (including a list of your publications and photocopies of your highest academic qualification) merged in one unique PDF document
  - 3) Upload a letter of motivation (limited to 1 page) merged with letters of recommendation into one unique PDF document)

### *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;

The ITER Organization (IO) is an Equal Opportunity organization committed to diversity and inclusive in the workplace.

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