

Job Title: Postdoctoral Researcher (5 Openings)

The ITER Organization brings together people from all over the world to be part of a thrilling human adventure in southern France—building the ITER Tokamak. We require the best people in every domain.

We offer challenging full-time assignments in a wide range of areas and encourage applications from candidates with all levels of experience, from recent graduates to experienced professionals. Applications from under-represented ITER Members and from female candidates are strongly encouraged as the ITER Organization supports diversity and gender equality in the workplace.

Our working environment is truly multi-cultural, with 29 different nationalities represented among staff. The ITER Organization Code of Conduct gives guidance in matters of professional ethics to all staff and serves as a reference for the public with regards to the standards of conduct that third parties are entitled to expect when dealing with the ITER Organization.

The south of France is blessed with a very privileged living environment and a mild and sunny climate. The ITER Project is based in Saint Paul-lez-Durance, located between the southern Alps and the Mediterranean Sea—an area offering every conceivable sporting, leisure, and cultural opportunity.

To see why ITER is a great place to work, please look at this video

Application deadline: 01/03/2022

Domain: Science & Operation

Job Grade: P1

Language requirements: Fluent in English (written & spoken)

Contract duration: 2 years

Purpose

Five openings

To pursue a program of original research in an area of fusion science or technology relevant to the ITER Project.
(see more details about these openings at <http://www.iter.org/monaco2022>)

Background information

In January 2008, a Partnership Arrangement was signed between the ITER Organization and the Principality of Monaco to set up a Postdoctoral Fellowship program. Since then, five young scientists from among the seven ITER Member countries or from the Principality of Monaco have been appointed every two years, and during their two-year appointment, they pursue research in areas of importance to the ITER Project.

The principal motivation of the Research Fellowships is the development of excellence in research in fusion science and technology within the ITER framework.

The Monaco/ITER Postdoctoral Fellowship Program allows 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 framework.

Key Duties, Scope, and Level of Accountability

- Carries out original research under an agreed program in support of the development of fusion energy; research possibilities exist in many areas of fusion science and technology, including, but not limited to:
 - Control Technology
 - Plasma facing materials and components
 - Burning plasma physics (confinement, stability, plasma-wall interactions, control, energetic particle physics)
 - Heating and current drive physics and technology

- Fusion plasma diagnostics
 - Superconducting magnet technology
 - Electrical engineering
 - Mechanical engineering/ structural analysis
 - Remote handling technology
 - Vacuum technology and plasma fuelling technology
 - Cryogenics
- As appropriate, establishes collaborations with researchers working in related areas in the ITER Members;
 - Publishes the results of research in appropriate conference proceedings and refereed journals;
 - May be requested to support any of the project/construction teams and to perform other duties in support of the project;
 - May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.

Measures of Effectiveness

- Contributes effectively to progress in the area of fusion science or technology defined by the agreed research or engineering program;
- Supports team activities efficiently in the relevant area of the ITER Project;
- Produces accurate and innovative studies within the defined timeline, writing reports and giving presentation on these researches or cases.
- Interacts well and communicates with colleagues at all levels.

Experience & Profile

- **Research Experience:**
 - Minimum 3 years of scientific or engineering research in one of the areas listed in “Key Duties, Scope, and Level of Accountability” item.
- **Education:**
 - PhD in an ITER-related scientific or engineering field.
- **Language requirements:**
 - Working knowledge in English (written and spoken).
- **Technical experience and demonstrated competencies in:**
 - Executing research and technical activities;
 - Demonstrating ‘out of the box’ thinking and ability to adapt easily;
 - Working with other scientists or engineers to identify and evaluate relevant sources of information;
 - Applying quality and safety standards;
 - Producing clear technical documentation and publishing or presenting technical and/or scientific reports on specific topics;
 - Proficient in MS office software;
 - Using computational methods to perform physics or engineering analysis would be an advantage;
 - Using common scientific computing languages (e.g. Fortran, C) would be an advantage.
- **Behavioral Competencies:**
 - Collaborate: Ability to conduct dialogues with a wide variety of actors and stakeholders;
 - Communicate: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;
 - Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
 - Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals;
 - Ethical values to instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity and to adapt to cultural diversity.

Other

- **Necessary qualifications:**
 - The applicant must be a national of one of the ITER Members or of the Principality of Monaco;

- The applicant must have received their PhD since 1 January 2019, or must receive their PhD prior to the deadline for beginning the Fellowship at the ITER Organization.

- *How to Apply (see also <http://www.iter.org/monaco2022>):*

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 three letters of recommendation into one unique PDF document.

Note: For merging documents into a single PDF file, free software is available at angusj.com

Further Information: For questions related to aspects of the Monaco/ITER Postdoctoral Fellowships, please contact Tim.Luce@iter.org.

The following important information shall apply to all jobs at ITER Organization:

- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct;
- ITER Core technical competencies of 1) Nuclear Safety, environment, radioprotection and pressured equipment 2) Occupational Health, safety & security 3) 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 work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- Informs the IO Director-General, Domain Head, or Department/Office Head of any important and urgent issues that cannot be handled by line management and that may jeopardize the achievement of the Project's objectives.