

VACANCY NOTICE FOR A TRAINEESHIP

AREA OF ACTIVITY	JUNIOR ENGINEER - TECHNICAL SUPPORT IN THE FIELD OF ITER DIAGNOSTIC SYSTEMS
REFERENCE	F4E/TRA/2016/016
START AND END DATE - DURATION	01/10/2016 - 30/06/2017 - 9 MONTHS
LOCATION	BARCELONA SPAIN
PUBLICATION DATE	02/05/2016
CLOSING DATE FOR APPLICATIONS	31/05/2016 AT 12:00 PM (BARCELONA TIME)

1. DESCRIPTION OF THE DEPARTMENT/PROJECT UNIT

The Diagnostics Project team has the following main responsibilities:

- Manage a programme of R&D, design and manufacturing activities for specific diagnostics to be provided to ITER by the EU.
- Delivery within budget and on time of components and systems described above, in line with ITER quality and nuclear standards.

ITER will be equipped with over 50 diagnostic systems to analyse and control the plasma during operation. These are based on a wide range of technologies, a number of which will be provided by F4E. These diagnostics include:

- Optical systems of various sizes, complexities and operating almost all bands of the electromagnetic spectrum, from microwave to infra-red and visible light systems as well as x-ray and gamma ray detectors.
- Magnetic sensors that measure the magnetic fields at various locations within the machine.
- Particle analysers including neutron detectors and pressure sensors
- Various additional instrumentation

The diagnostic subsystems will be spread over a wide range of locations within the tokamak machine and the wider ITER plant, meaning that they will experience a range of environments as well as interface with most of the other ITER systems.

2. DESCRIPTION OF TASKS

The trainee will be required to carry out the following tasks:

- Supporting the technical management of requirements databases for a number of diagnostic systems.
- Providing literature research and reporting on technical engineering questions
- Contributing to market analyses of the state of the art of diagnostic technologies

3. ELIGIBILITY CONDITIONS

- Be a national of one of the Member States of the European Union or of a Third state fully associated with the Euratom fusion programme (Switzerland);
- The candidate must have finished his/her university degree at least 3 years attested by a diploma. The university degree must have been obtained within the last 3 years before the closing date for applications;
- In order for the trainee to fully profit from the traineeship and to be able to follow meetings and perform adequately, candidates must have good knowledge of English, the main working language of F4E.

Applications will not be accepted from candidates who:

- have already benefited from any kind of in-service training within a European institution or body, or
- who have had or have any kind of employment within a European institution or body.

4. QUALIFICATIONS REQUIRED

- Bachelor's degree in Engineering, Physics (or similar)
- Good communication skills and ability to work with others
- Good learning skills and ability to deliver quality and results
- Good analytical and problem solving skills

5. ADVANTAGEOUS QUALIFICATIONS

- Experience in working on engineering projects
- Design experience of systems using similar technologies to those mentioned in the project unit description

6. WHAT WE OFFER

Trainees are awarded a monthly maintenance allowance. The monthly allowance for 2016 amounts to €1.087,39.

Additionally, trainees may receive a travel allowance, subject to budget availability, to compensate for travel expenses incurred from the place of residence to the seat of F4E and vice versa. Trainees whose place of recruitment is less than 50 km from F4E's offices shall not be entitled to a travel allowance.

Detailed information about the F4E traineeship procedure as well as trainees' rights and duties can be found in the Decision of the Director of 'Fusion for Energy' on the Acceptance of Traineeships published on our website. We strongly recommend applicants to read them carefully. Accommodation costs will be covered by the trainee.

6. SUBMISSION OF APPLICATIONS

The online application process starts upon clicking "**CLICK TO APPLY**" on the traineeships page: <http://www.fusionforenergy.europa.eu/careers/traineeships.aspx>.

Applicants must register their applications online through the F4E traineeship's tool by creating a valid F4E user account and choosing the vacancy notice they wish to apply to.

Please note that the online traineeship application tool is the *only* acceptable means of sending applications. Applicants are responsible for keeping their e-mail addresses and personal details up to date in their profile in F4E online application tool.

The mandatory fields in the profile marked with an asterisk should be duly filled in. Candidates are requested to submit the following 2 documents:

- A detailed Europass curriculum vitae in **English** (can be obtained at the following address: <http://europass.cedefop.europa.eu/en/documents/curriculum-vitae>)
- A motivation letter of 2 pages maximum in English

Applications must be sent by 31/05/2016 (closing time 12:00 pm Barcelona time).

In case you encounter technical problems when trying to submit your application via the traineeship application tool, please make a screenshot and send it to: traineeships@f4e.europa.eu.

It is the responsibility of the applicant to inform 'Fusion for Energy' about any technical problem without delay within the deadline mentioned above.

Please, do not send any supporting documents (i.e.: copies of your ID-card, educational certificates, etc.) **with your application at this stage if not specified in the Traineeships Notice.**