

VACANCY NOTICE FOR A TRAINEESHIP

AREA OF ACTIVITY	TOROIDAL FIELD COILS MANUFACTURING
REFERENCE	F4E/TRA/2019/084
START AND END DATE - DURATION	01/10/2019 - 30/06/2020 - 9 MONTHS
LOCATION	BARCELONA (SPAIN)
RESERVE LIST – MAXIMUM NUMBER	5
PUBLICATION DATE	29/04/2019
CLOSING DATE FOR APPLICATIONS	20/05/2019 AT 12:00 NOON (BARCELONA TIME)

1. DESCRIPTION OF THE DEPARTMENT/PROJECT UNIT

The mission of the Magnets Project Team is to prepare and manage the procurement of the ITER Magnets to be provided as EU in-kind contributions to the project. This includes ensuring manufacturing monitoring and follow-up, participation to design reviews, assessment of test programs and results, definition of preventive and corrective actions, handling of non-conformities, participation to site acceptance tests and also commissioning activities.

2. DESCRIPTION OF TASKS

S/He will support the team in the manufacturing activities of the biggest ever Toroidal Field Coil (TF) which are framed in the projects of the *TF Winding Pack Manufacturing* and the *TF Insertion and Cold Test*, dealing in particular with the comparative analysis of the manufacturing data and features of each of the 10 TF Coils to be manufactured by F4E. All kind of engineering data is generated at several stages of the fabrication process, and the trainee will design and perform a comparative analysis using all the information available, including dimensional inspection results, magnetic measurements, Current Centre Line position, electrical and cold test results, welding deformation and final TF assembly configuration.

The Trainee may also support the team in other technical topics, assessment of reports and technical engineering documentation provided by the manufacturing companies or the ITER IO, including 3D models and 2D drawings.

• 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 of 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.

3. QUALIFICATIONS REQUIRED

- Bachelor's degree in mechanical, manufacturing, materials, electrical, nuclear, aerospace engineering, or equivalent;
- Knowledge of engineering software tools (CAD, FEA, CAE, or others);
- Knowledge of programming languages (Python, C++, Tcl/Tk, Visual Basic, or others);
- Knowledge in MS Office package, especially MS Excel;
- Experience in drafting technical reports and visual display of technical quantitative and qualitative information;
- Strong communication and organizational skills;
- Ability to integrate into an international and multicultural environment.

4. WHAT WE OFFER

Trainees are awarded a monthly maintenance allowance. The monthly allowance for 2019 amounts to € 1.097,50 (Spain).

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 20/05/2019 (closing time 12:00 NOON, 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.**