VACANCY NOTICE FOR A TRAINEESHIP

AREA OF ACTIVITY	**REMOTE HANDLING – IVVS (PROGRAMME B)**
REFERENCE	**F4E/TRA/2016/023**
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 RH Project Team is responsible of the procurement of several Remote Handling systems which are used for the maintenance of ITER, in particular of the following packages:

- Divertor Remote Handling System (DRHS)
- Cask and Plug Remote Handling System (CPRHS)
- Neutral Beam Remote Handling System (NBRHS)
- In-Vessel Viewing System (IVVS)

2. DESCRIPTION OF TASKS

The ITER In-Vessel Viewing and metrology System (IVVS) is a combined viewing and metrology system whose function is to allow visual inspection and erosion-related measurement of plasma-facing components. The metrology function in particular will be based on time-of-flight measurements that will be translated in points on a polar coordinate system. The processing of the cloud of points acquired and the reverse engineering of the reconstructed geometry will allow understanding the state of the plasma-facing components. The extent of the surfaces, the high precision required and the geometries will impose the conjunction of surfaces scanned from different inspections.

The trainee will be required to carry out the following tasks in the area of the metrology function of IVVS:

- Contribute to the definition of the methods for the post-processing of the cloud of points;
- Analyze the availability of reverse engineering assembling methods, including the error budget;
- Perform simulations and tests for the reverse engineering of the surfaces;
- Contribute to the assessment of the uncertainties of the processes of the metrology function;

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

Essential:

- Degree or Master Degree related to applied physics or applied mathematics.
- Experience in:
  - Computer science applied to vectorial analysis;
  - Data analysis and post-processing in the field of analytic geometry;

Advantageous experience:

- Metrology.

5. WHAT WE OFFER

Trainees are awarded a monthly maintenance allowance. The monthly allowance for 2016 amounts to €1087,39.

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.**