

**VACANCY NOTICE**  
**F4E/TA/AD6/2011/0141**  
**(Temporary Agent – AD6)**

<b>POSITION TITLE</b>	MECHANICAL ENGINEER FOR THE EC LAUNCHER
<b>GRADE</b>	AD6
<b>LOCATION</b>	BARCELONA, SPAIN
<b>CLOSING DATE FOR APPLICATIONS</b>	01/04/2011

## **1. THE ORGANISATION**

The European Joint Undertaking for ITER and the Development of Fusion Energy ('Fusion for Energy' or F4E) plays a key role in realising fusion as a possible future source of energy by providing the European contributions to the ITER International fusion energy project and the Broader Approach Agreement with Japan as well as by preparing for the construction of a demonstration fusion reactor.

In its role as the Euratom Domestic Agency for ITER, F4E

- Oversees preparation of the ITER project site in Cadarache, France;
- Provides in kind components, equipment, materials and other resources to ITER;
- Manages procurement arrangements with ITER ;
- Coordinates Euratom's participation in the scientific exploitation of ITER;
- Provides for the implementation of R&D activities in support ITER;
- Provides Euratom's financial contribution to ITER;
- Provides arrangements to make human resources available for ITER.

In its role as the Implementing Agency for the Broader Approach Agreement with Japan, F4E:

- Provides components, equipment and other resources for the Broader Approach (BA);
- Coordinates Euratom's participation in the Broader Approach implementation ;
- Provides for the implementation of associated R&D activities;
- Provides the Euratom financial contribution to the Broader Approach;
- Arranges to make human resources available for the Broader Approach.

In preparation for the construction of a demonstration fusion reactor (DEMO) and related facilities including the International Fusion Materials Irradiation Facility (IFMIF), F4E will implement a programme of research, development and design activities.

For further information about the structure and tasks of F4E, please consult the website at <http://fusionforenergy.europa.eu>

## 2. JOB DESCRIPTION - RESPONSIBILITIES

As a member of the EU- ITER Department of 'Fusion for Energy', the Mechanical Engineer for the EC Launcher will work in Plasma Engineering Project which includes three sub-project areas: Ion Cyclotron ITER antennas for plasma heating, the Electron Cyclotron Upper Launchers (EC UL) for MHD control and plasma engineering. The Mechanical engineer for the EC Launcher will be assigned to the EC UL sub-project and will report to the Project Manager.

The role that the successful candidate will cover in the Project is both technical and of project management support. He/she, among other tasks, will:

- Support and contribute to all phases of the Call for Tender/Proposals process through to placement of development, design and manufacturing contracts;
- Contribute to the preparation of detailed technical specifications and associated quality management documents for Call for Tender/Proposals, in collaboration with the Procurement Officer;
- Contribute to the technical evaluation of tender responses and in negotiations for concluding R&D, design and manufacturing contracts;
- Support the implementation of development for critical components, together with industry and laboratories;
- Organise technical meetings (e.g. design reviews, progress meeting, etc), preparing reports and minutes as required;
- Assess the results of engineering analyses, designs and (manufacturing) drawings produced by suppliers;
- Contribute to the definition of testing and qualification programmes (according to technical needs and QA requirements); witness testing of components in preparation of the PAs.
- Contribute to the provision of cost estimates in his/her area of responsibilities;
- Follow-up manufacturing contracts including overseeing of hardware procurement, assembly, installation and testing, monitoring of progress, proposals for remedial action, approval of designs, and attendance of tests;
- Provide support for the preparation of the Procurement Arrangements (PA) with ITER, which define F4E's scope of supply and associated responsibilities, and liaise with ITER during the whole period of the PA, up to final acceptance;
- Provide support for the preparation of F4E work programmes and work plans and to their implementation;
- Provide support for the monitoring of the contractual activities, for their reporting internal to F4E as well as to external bodies, as required
- Prepare and provide the required inputs for preparation of the F4E project schedules and its regular maintenance and updating in cooperation with the Planning and Scheduling Group;
- Liaise with other F4E departments, in particular with Administration, for all matters concerning the contracts;
- Maintain the contractual files documentation;
- Contribute to the management of interfaces between F4E, suppliers and ITER, including with other ITER Parties in charge of the procurement of interfacing sub-systems and components.

### 3. GENERAL CONDITIONS

#### A. ELIGIBILITY CRITERIA

A1. In order to be eligible the candidate must:

- Be a citizen of one of the Member States of the European Union or of a Third state fully associated with the Euratom fusion programme (Switzerland).
- Enjoy his/her full rights as a citizen.<sup>1</sup>
- Have fulfilled the obligations imposed on them by the laws of their home country concerning military service.
- Meet the character requirements for the duties involved.
- Be physically fit to perform their duties<sup>2</sup>.

A2. On the closing date for registration the candidate must possess:

At least a level of education which corresponds to completed university studies of at least 3 years attested by a diploma and, after having obtained the university degree, at least 3 years of proven professional experience;

Only study titles that have been awarded by the Members of the Joint Undertaking or that are subject to the equivalence certificates issued by the authorities in the said Member States shall be taken into consideration.

A3. The candidate must possess a thorough knowledge of one of the official languages of the European Union and a satisfactory knowledge of another language of the European Union to the extent necessary for the performance of his/her duties<sup>3</sup>.

#### B. QUALIFICATIONS AND EXPERIENCE REQUIRED

##### B1 Essential Selection Criteria

- University degree in Mechanical Engineering or equivalent;
- Proven working experience in two or more of the following fields:
  - Engineering of mm-wave components and systems (design and testing)
  - Mechanical design
  - Ferrous and non-ferrous metallurgy, manufacturing, forming and joining techniques (especially welding and brazing processes)
  - Advanced materials, coatings and ceramics technologies
  - Robotics, remote handling and remote sensing
  - Vacuum methodologies, technologies and/or vacuum plant engineering
  - High heat flux components and heat transfer system design, fabrication and testing
  - Application of Quality Assurance systems and international codes & standards
  - Component and system testing

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<sup>1</sup> Prior to any appointment, the successful candidate will be asked to provide a certificate issued by the competent authority attesting the absence of any criminal record.

<sup>2</sup> Before his/her appointment, the candidate shall be medically examined in line with requirement of Article 12(2)(d) of the Conditions of employment of other servants of the European Communities.

<sup>3</sup> In addition, staff members are required to have a working knowledge of a third EU language, as described in the applicable Staff Regulations and Implementing Rules in order to be considered for their first promotion.

- The experience required under section A2 must have been acquired during engineering activities involving design and/or manufacturing of mechanical systems;
- Experience in the preparation and/or evaluation of technical bids;
- Experience in follow-up of procurement contracts, including monitoring of schedule, quality control procedures and final acceptance tests;
- Good analytical capabilities, communication skills, organisational skills and ability to work under pressure;
- Willingness to travel and work away from the office;
- Good command of both written and spoken English, the working language of the ITER Project.

## B2 Advantageous Selection Criteria

- Proven professional experience of at least 2 years in one or more of the areas listed in B1 ;
- Experience in the preparation of technical specifications for complex mechanical systems involving several, and important, interfaces with external components ;
- Familiarity with computerized engineering analysis tools for Computer-aided design (e.g. CATIA)
- Familiarity with computerized engineering analysis tools for structural, thermo-mechanical and thermo-hydraulic analysis (e.g. ANSYS);
- Knowledge of scientific and engineering aspects of the ITER project and of related activities;
- Experience in the design, analysis and integration of systems and components for fusion devices;
- Familiarity with working in multinational and/or distributed teams;
- Experience applying formal codes and standards to engineering projects;
- Working experience in a European or international setting.

## 4. CONDITIONS OF EMPLOYMENT

A contract offer will be made as a member of temporary staff, pursuant to Article 2(a) of the Conditions of Employment of other servants of the European Communities.

The successful candidate will be recruited in the grade AD6 on a contract with an initial duration of five years, with possibility of renewal.

The salaries of temporary agents are subject to a community tax deducted at source. They are exempt from national tax. The European institutions have their own social security and pension scheme. **As an indication, the basic monthly salary, before any deductions or allowances, for grade AD6 (step 1) is currently 4.828,65 €.**

In addition to the basic salary, staff members may be entitled to various allowances, in particular a household allowance, expatriation allowance (16% of basic salary and household allowance), dependent child allowance and education allowance. The salary is subject to a reasonable Community tax deducted at source and staff members are exempt of national taxation.

Under certain circumstances, in particular where the jobholder is obliged to change his/her place of residence in order to take up employment, 'Fusion for Energy' may also reimburse various expenses incurred on recruitment, notably removal expenses.

The place of employment is **Barcelona, Spain.**

Given the need of the organisation and upon the agreement of the candidate, the place of employment might also be any of the other F4E working places: Garching (Germany) or Cadarache (France).

For reasons related to the 'Fusion for Energy' operational requirements, the candidate will be required to be available at short notice.

## **5. SELECTION PROCEDURE**

A Selection Committee will be set up for the selection process. The eligibility of candidates will be assessed by the Committee according to compliance with all formal requirements by the closing date for the submission of applications. Any applications which do not meet the requirements specified in a vacancy notice (i.e. incomplete applications, applications submitted after the deadline or which do not meet the detailed criteria listed under 'the eligibility criteria') will be rejected.

Eligible candidates who meet all essential selection criteria and have the best profiles for the specific needs will be invited for an interview, which will be held mainly in English. Candidates invited for an interview will be requested to present for verification all documents supporting every educational achievement and work experience they have referred to in the application.

The interview will focus in particular on the candidate's specialist knowledge in the field of the selection and his/her knowledge of the main developments in European integration and Community policies. The interview is also designed to evaluate his/her linguistic skills and ability to adjust to working in a multicultural environment.

The interview sessions will be held in **Barcelona, Spain**.

**Please note that the Selection Committee's work and deliberations are strictly confidential and that any contact with its members is strictly forbidden.**

After the interviews, the Selection Committee will draw up a reserve list with the most suitable candidates, which will be adopted by the Appointing Authority and will be valid until 31 December 2012 and may be extended. As soon as this decision is taken, successful candidates will be informed. However, candidates should note that inclusion in the reserve list does not guarantee recruitment.

Please note that a binding commitment can only be made after verification of all conditions and will take form of a contract signed by the Director of 'Fusion for Energy', on proposal by the Selection Committee. If at any stage of the procedure it is established that any of the information a candidate provided is incorrect, this candidate will be disqualified.

The present vacancy notice is subject to the availability of budget and posts in the establishment plan of the Joint Undertaking, as decided by the EU budgetary authority.

## **6. GENERAL INFORMATION**

### **Commitment to promote equal opportunities**

'Fusion for Energy' is an equal opportunities employer and strongly encourages applications from all candidates who fulfil the eligibility and selection criteria without any distinction whatsoever on grounds of nationality, age, race, political, philosophical or religious conviction, gender or sexual orientation and regardless of disabilities, marital status or other family situation.

### **Approximate timetable**

As a rough guide only, the selection procedure can take up to 6 months from the date on which it was published to establishment of a reserve list.

### **Communication with applicants**

Taking into account the nature of the duties, and in order to facilitate the selection process, all communications to candidates concerning the selection procedures will be by email and in English only. Applicants are advised to check their e-mail regularly to see whether they have received any communication and also update their profiles in the e-recruitment tool in the event of any change in their contact details. All enquiries or requests for information or documentation in relation to selection procedures should be addressed to 'Fusion for Energy' HR Selections Team by e-mail to:

[hr-selections@f4e.europa.eu](mailto:hr-selections@f4e.europa.eu)

## Reimbursement of travel expenses

Travel expenses incurred for interviews will be reimbursed by 'Fusion for Energy' according to its rules for the reimbursement of travel expenses sent along with the letter inviting to an interview.

## Protection of personal data - Privacy notice

'Fusion for Energy' as the body responsible for organizing the selection process, will ensure that applicants' personal data are processed as required by Regulation (EC) No 45/2001 of the European Parliament and of the Council of 18 December 2000 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data. This applies in particular to the confidentiality and security of such data. Personal data shall be processed solely for the purpose of the selection procedure.

Applicants have the right to access and rectify their data. In order to update your CV and/or Motivation Letter and rectify any incorrect or inaccurate data, please send an email to [hr-selections@f4e.europa.eu](mailto:hr-selections@f4e.europa.eu) **before the deadline for submission of the applications elapses.**

After the deadline for applications has elapsed, this right will be limited to the rectification of identification details and contact information only.

Should the applicant have any query concerning the processing of his/her personal data, he/she shall address them to the following address: [Resources-Controller@f4e.europa.eu](mailto:Resources-Controller@f4e.europa.eu)

## Appeal and Complaint procedures

Applicants that consider that he/she has been adversely affected by a particular decision regarding this selection can lodge a complaint. For further details on how to proceed, please consult the appropriate document published on our website.

## 7. SUBMISSION OF APPLICATIONS

The online application process starts upon clicking "**CLICK TO APPLY**" next to a vacancy of your interest on the Open Positions page:

<http://fusionforenergy.europa.eu/careers/vacancies.aspx>

Applicants must register their applications online through the F4E E-recruitment tool by creating a valid F4E user account.

**Please note that the online e-recruitment application tool is the only acceptable means of sending in job 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 and the candidates are requested to submit the following 2 documents:

- A detailed curriculum vitae in **European format in English** (that can be obtained at the following address:  
<http://europass.cedefop.europa.eu/europass/home/hornav/Downloads.csp>
- A motivation letter of 2 pages maximum in English including a clear mention of the post applied for and of your address for correspondence and for invitation to interview

**Applications must be complete and validly submitted by the closing date for submission of applications**  
**no later than 01/04/2011 at 12h00 noon, Barcelona GMT+1.**

**In case you encounter technical problems when trying to submit your application via the e-Recruitment tool, please make a screenshot and send it to:**

**[e-recruitment@f4e.europa.eu](mailto:e-recruitment@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, evidence of previous professional experience etc.) **with your application at this stage if not specified in the Vacancy Notice.**