

VACANCY NOTICE

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| POSITION TITLE | TECHNICAL SUPPORT OFFICER |
| SELECTION REFERENCE | F4E/CA/FGIV/2018/0124 |
| GRADE | CONTRACT AGENT – FGIV |
| LOCATION | BARCELONA, SPAIN ¹ |
| NUMBER OF SUCCESSFUL CANDIDATES SOUGHT FOR THE RESERVE LIST² | 5 |
| VALIDITY OF THE RESERVE LIST | 31/12/2019 |
| CLOSING DATE FOR APPLICATIONS | 12/12/2018 AT 12.00 NOON, BARCELONA TIME |

1. ORGANISATION SETTING

Fusion for Energy, or F4E, a European Union Joint Undertaking, headquartered in Barcelona, specifies and manages the production of the European contribution (45%) to ITER. This research fusion reactor in Cadarache, France, will progress fusion by a major leap towards clean and sustainable generation of abundant base load energy, complementing renewables.

ITER is one of the largest construction projects in Europe and the world's largest scientific partnership. ITER brings together seven parties that represent half of the world's population – the EU, Russia, Japan, China, India, South Korea and the United States.

The **Analysis and Codes Group** as part of the Technical Support Services Unit, supports the F4E project teams by developing and running multi-physics computational models as well as reviewing and independently checking analysis reports compiled by external suppliers.

2. RESPONSIBILITIES

As a member of the ITER Delivery Department of 'Fusion for Energy', the Technical Support Staff will work in the Analysis and Codes (A&C) Group of the Technical Support Services to support the development of finite element models (FEM) to justify the non-conformities and deviations that may arise during the manufacturing of the ITER components. She/he will report directly to the Analysis and Codes Group Leader (A&C GL).

¹ Given the needs of the organisation, the candidate may be offered a position at any of the other F4E working places.

² The Selection Board will draw up the reserve list. Subject to availability of sufficiently good candidates, the list will be populated up to the number of successful candidates sought and stipulated in the vacancy notice. Eligible candidates who have been shortlisted for further testing and have obtained the highest overall marks following the assessment will be listed alphabetically. Where candidates tie for the last available place on the reserve list, they will all be included on the reserve list. Any readmitted candidates following a successful appeal at this stage of the procedure will also be added to the reserve list.

The successful candidate will, among other tasks:

- Support the development of numerical models linked to Vacuum Vessel manufacturing activities, working together with industry and ITER IO Central Team (IO-CT);
- Develop and run FEA (solid modelling) in support to the resolution of non-conformities and deviations (impact analysis) that may arise during Vacuum Vessel manufacturing activities;
- Execute, review and verify finite element analysis (FEA) related to manufacturing activities, with particular attention to the compliance with nuclear traceability, QA and safety requirements;
- Support the follow-up of QA and safety requirements in analysis procurements and in house calculations or any other analysis activity concerned by F4E Quality system;
- Support the preparation of technical specifications, technical reports, internal documentation, memorandums, presentations and monitoring reports among others, including any required interfacing activity with other F4E groups like Contract and Procurement, Project Management or ITER IO Central Team.

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.³
- 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 duties⁴.

A2. On the closing date for registration, the candidate must possess the following minimum qualifications:

A level of education which corresponds to completed university studies of at least three years attested by a diploma

AND

In addition to the above, appropriate professional experience of at least one year, acquired after the university degree.

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 produce evidence of a thorough knowledge of one of the languages of the Union and of a satisfactory knowledge of another language of the Union to the extent necessary for the performance of his duties⁵. One of the two languages must be English.

³ 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.

⁴ Before his/her appointment, the candidate shall be medically examined in line with requirement of Article 82(3)(d) of the Conditions of employment of other servants of the European Communities.

⁵ Before obtaining an employment contract for indefinite duration, contract agents in function group IV shall be required to demonstrate the ability to work in a third official EU language.

B. QUALIFICATIONS AND EXPERIENCE REQUIRED

B1 Essential Selection Criteria

- University degree in mechanical engineering, nuclear engineering or equivalent;
- At least 3 years of working experience in engineering analysis, involving numerical modelling and analysis execution;
- Proven working experience in the following areas:
 - Programing in ANSYS APDL software
 - Solid modelling and meshing for general FEA purposes (e.g. Hypermesh, etc.)
 - Mechanical and Thermo-Mechanical computation
 - Post-processing of FEA results according to mechanical design codes & standards (e.g. RCC-MR, SDC-IC, ASME, etc.)
 - Working under stringent Safety and QA requirements as customary in today's hi-tech industries such as nuclear or aerospace
- Good analytical capabilities;
- Good interpersonal skills;
- Ability to work both autonomously and in a team;
- Good organisational skills and ability to work under pressure;
- Ability to integrate into an international and multicultural environment.

B2 Advantageous Selection Criteria

- Working experience in a European or international environment;
- Thermo-mechanical analysis of fusion devices components;
- Knowledge of fusion relevant technologies and design of fusion devices components;
- Knowledge of ITER related codes and standards (RCC-MR, SDC-IC, etc.);
- Proven experience in performing analysis and technical control of calculations according to the French Order establishing the general rules for Basic Nuclear Installations (7 February 2012);
- Proven experience in analysis justification of non-conformities (NCR's) and deviations (DR's) to the design during manufacturing, transport or assembly phase;
- Strong communication skills;
- Ability to work under conditions that require considerable flexibility;
- Client/service orientation.

4. CONDITIONS OF EMPLOYMENT

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.

Depending on business needs and budgetary availability, the candidate(s) placed on the reserve list may be recruited as contract agents under Article 3(a) of the CEOS in Function Group IV with either a contract of an initial duration of three years, with possibility of renewal; or with a non-renewable contract of a shorter duration.

In both those cases, the probationary period is 9 months.

For more information on the selection process of Contract Agents and on the contractual and working conditions, please, refer to:

- **Guide for Applicants:**
<http://fusionforenergy.europa.eu/careers/Documents/Annex%20to%20the%20VN.pdf>
- **Conditions of employment of Other Servants of the European Communities:**
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:1962R0031:20140101:EN:PDF>

The successful candidate will be recruited in **function group IV (FG IV)**. The grade (13, 14 or 16) will be determined in accordance with the years of professional experience. **As an indication, the basic monthly salary, before any deductions or allowances for FG IV (grade 13 step 1) is currently 3.404,15€.**

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.

For further information on remuneration for contract agents, visit:
http://www.fusionforenergy.europa.eu/downloads/careers/Remuneration_CA.pdf

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 needs of the organisation, the candidate may be offered a position at any of the other F4E working places.

For reasons related to the 'Fusion for Energy' operational requirements, once the candidate receives the job offer, he/she may be required to be available at short notice (2 to 3 months).

5. 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/Default.aspx>

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

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 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 complete and validly submitted by the closing date for submission of applications

no later than 12/12/2018 at 12h00 noon, Barcelona time.

Reimbursement of travel expenses

Travel expenses incurred for tests 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. After the submission of the required documents, the reimbursement of the travel expenses will occur in the 3 following months.

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. To update your CV and/or Motivation Letter and rectify any incorrect or inaccurate data, please login into your e-recruitment profile **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

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: hr-selections@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.**

Appeal and Complaint procedures

Applicants that consider that he/she has been unfairly 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](#).

6. RESERVE LIST

Suitable candidates placed on the reserve list may be recruited upon decision of the Appointing Authority. Candidates should note that inclusion on the reserve list does not guarantee recruitment.

This reserve list may be used for recruiting candidates on other similar positions carrying the same profile as the one described in this notice.

The validity of the reserve list could be extended if the Appointing Authority so decides.

All the detailed information concerning the selection process may be found in the "Guide for applicants" published on the F4E website along with this Vacancy Notice.