



System Architect/Project Engineer (2 profiles)

Fusion for Energy (F4E) is hiring a System Architect/Project Engineer, who will play a key role in supporting fusion, the power of the Sun, into a future sustainable energy source.

Reference	Grade	Location	Closing date
F4E/TA/AD6/2024/0277	Temporary Agent AD6	Barcelona, Spain ⁱ	20/12/2024 - 12:00 noon (CET)

Is this job for you?

Are you experienced in preparing and managing Contracts dealing with Technical Services, Design, or Manufacturing? Or do you excel in coordinating and implementing technical activities within various project phases, such as design, manufacturing, assembly, and commissioning? Are you an analytical, organized, and effective technical communicator with strong interpersonal skills? If so, we have the perfect opportunity for you! Apply to become one of our new project Engineer or System Architects within our Engineering and Fusion Technology and Development department.

Fusion for Energy (F4E) is managing Europe's contribution to ITER, the biggest fusion experiment, and is contributing to several other major projects in the same domain. The fusion landscape is changing fast and F4E as a key European player will enter in a new organisation in the coming months.

Important! This vacancy covers two profiles 1) System Architect and 2) Project Engineer.

Candidates are required to indicate in their application which profile they apply for, otherwise they will not be considered for further evaluation.

N.B: Candidates can only apply for one of the two profiles.

Why F4E?

Fusion for Energy (F4E) is the European Union's organisation for ITER and the Development of Fusion Energy. We are working with industry and laboratories to deliver cutting-edge components to the ITER international fusion energy project. In parallel, we are working on other major projects in the same domain, including the JT-60SA experiment with Japan, a new material testing facility (DONES), and, in the long-term, preparing for the next generation of fusion devices.

F4E is headquartered in Barcelona with offices in Cadarache (France) and Garching (Germany). To deliver the European contribution to ITER, face the fusion challenges, and manage more than 400 professionals, F4E is moving towards a more diverse, flexible, and result-oriented organisation. Its renewed vision is focussed on (1)

successful delivery of projects, (2) developing fusion talent and knowledge base for the development of commercially viable fusion power plants in Europe and (3) paving the way for a transition from research to a competitive European industrial fusion sector.

We are committed to Diversity & Inclusion

Fusion for Energy is an equal opportunities employer and takes care to avoid any form of discrimination. As part of its commitment to diversity, gender equality and geographical distribution, F4E strongly encourages applications from female candidates and applies a policy of equal opportunities. It does not discriminate against anyone on grounds of gender, race, colour, ethnic or social origin, genetic features, religion or belief, political or any other opinion, membership of a national minority, property, birth, disability or sexual orientation. Fusion for Energy offers measures to reconcile professional and private life and will provide reasonable adjustments at the workplace for persons with disabilities.

Your key areas of impact

The Fusion Technologies and Engineering Department (FUTED) contributes to F4E programmes by providing technical solutions, resources, services, expertise in domains of engineering and fusion technologies. It is responsible for developing and maintaining critical technical knowledge as well as developing and implementing engineering processes, guaranteeing the technical quality, coherency, consistency of the systems, acting as design authority and developing a fusion technologies development programme. The Department is composed of around 107 staff.

As a member of the Fusion Technologies and Engineering Department, the successful candidate will report hierarchically to the Head of Unit belonging to s/he field of expertise. The successful candidate will contribute to F4E projects by providing technical solutions, services, expertise in the domain of engineering and fusion technologies. It will be responsible for developing and maintaining critical technical knowledge as well as developing and implementing engineering processes, guaranteeing the technical quality, coherency and consistency of the systems. Depending on the profiles the successful candidate(-s) will be responsible for:

Project Engineer

- Coordinate and maintain proper alignment in between the Project different phases and the activities of design, analyses, qualification, manufacturing, metrology, factory/site acceptance tests, assembly and commissioning tasks under the coordination of the Project Manager.
- Support the preparation of Procurement Arrangements technical requirements liaising with F4E and ITER International Organization counterparts.
- Contribute to the definition of the procurement strategies; support the development of budget, work programs and schedules for concerned work packages.
- Operationally support the Project Manager in the management of contracts call for tenders, including the preparation of Technical Specifications / Task Descriptions.
- Provide operational support for contracts implementation tasks in terms of planning, scheduling, cost management, Risk Management, Change Management and Quality.
- Manage work packages and related contracts by tracking activities in accordance with the plan.
- Contribute to tenders related to contracts with external suppliers within field of competence.
- Provide contributions to the application of Quality Assurance/Quality Control (QA/QC) requirements and their propagation and implementation follow up to the supply chain. Contributes to the implementation/control of safety requirements into assigned scope.
- Give inputs to the analyses and evaluation of results in schedule performance and cost performance.

System Architect

- Provide technical advice for engineering activities and technical decision in the different areas such as: definition of geometrical requirements, design, analyses, qualification, metrology, manufacturing, factory/site acceptance, assembly and handling, commissioning, Instrumentation and Control.
- Define the product breakdown structure, lease with Fusion Technologies and Engineering Department resource to coordinate related design activities and interact with PM's and TPO's to develop design steps in agreement with project schedule and scope of work.
- Participate and provide justification about design choices along the different design gates: FDR, MMR, etc.
- Contribute to PEER reviews.
- Deal with ITER Organization (IO) to reach consolidated design specifications.
- Support the Project Engineer/Project Manager in the follow up of design contracts dealing with:
 - propagation and the verification of the technical requirements, review of design contract deliverables, review and follow-up of technical risks and its mitigation actions).
 - Development of detail manufacturing drawings (mechanical, electrical, etc).
 - Development of qualification drawing.
 - Development of design, manufacturing and qualification documents.
 - Follow up of qualification programmes.
 - Participate Factory Acceptance Test (FAT) and Site Acceptance Test (SAT) of components/assembly.
- Support the progress of design work packages providing technical expertise, inform, propose, or implement solutions to technical problems; monitor and evaluate the implemented solutions.
- Collaborate in the preparation of Procurement Arrangements technical requirements liaising with F4E and ITER International Organization counterparts.
- Participate in the definition of the procurement strategies; contribute to the development of budget, work programs and schedules for concerned work packages.
- Lead and contribute to Knowledge Management activities in areas of expertise.
- Advise on the right application of Codes and Standards in areas of expertise.
- Organise the solutions to be applied transversally: standards, outsourced services, knowledge and training. (e.g. Coordinate the definition of internal standards, the outsource of support services in the area, knowledge management, etc.).

What can we offer you?

Life in Barcelona

Barcelona offers professionals and families a high quality of life. It has a year-round average temperature of 18°C and complements its cosmopolitan lifestyle and vibrant cultural life with the nature of the Mediterranean coastline and the Pyrenees.

The city is strategically located between the sea and the mountains, and it is served by an international airport. Barcelona is a cosmopolitan city with Roman remains, medieval quarters and the most beautiful examples of 20th century modernism and avant-garde architecture.

Salary and benefits

As an indication, the basic monthly salary for grade AD6 (step 1) is currently € 6.418,36. 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 salaries of temporary agents are subject to a community tax deducted at source and are exempt from national taxation.

Where you would need to relocate, you would normally benefit from relocation and removal reimbursements. F4E has agreements with a wide range of international schools to support access to schooling for the dependent children of its staff.

Work-life balance

F4E enables staff members to reconcile family and professional life by offering flexible work arrangements and teleworking.

F4E staff members enjoy a basic entitlement of 24 days of annual leave as well as +/- 18 statutory public holidays per annum. Additional leave days may be granted for age and distance from the place of origin.

How will we evaluate your application?

A Eligibility Criteria - you can apply if:

A1. You fulfil five general requirements

1. Being a citizen of one of the Member States of the European Union or of a third state fully associated with the Euratom fusion programme.
2. Enjoying your full rights as a citizenⁱⁱ.
3. Have fulfilled the obligations imposed on you by the laws of your home country concerning military service.
4. Producing the appropriate character references as to your suitability for the performance of your duties.
5. Being physically fit to perform your dutiesⁱⁱⁱ.

A2. Your Education & Experience are in line with our requirements^{iv}

On the closing date of the application process, you must have:

A level of post-secondary education attested by a diploma and, after having obtained the diploma, 3 years of relevant professional experience;

OR

A level of secondary education attested by a diploma giving access to post-secondary education and, after having obtained the diploma, 6 years of relevant professional experience.

A3. Your Language Skills are developed

You must produce evidence of excellent written and spoken communications in English and of a satisfactory knowledge of another official language of the European Union.

B Your Qualifications and Experience

B1. It is essential that your professional history cover:

- University degree in Engineering: Industrial, Mechanical, Material or an equivalent technical discipline.
- Professional experience of at least 5 years in total, acquired after the university degree, in at least two of the following areas:
 - Preparation of Technical Services, Design or Manufacturing Contracts call for tenders, including the preparation of Technical Specifications / Task Descriptions and participation in evaluations.
 - Operational management of Contracts implementation, including the follow-up the propagation and the verification of the requirements, review of contract deliverables, review and follow-up of technical risks and their mitigation actions and preparation or review of technical reports and contract documentation.
 - Design or follow-up of design contract of mechanical systems, structures or components.
 - Follow-up of Manufacturing or engineering of mechanical or electro-mechanical components.
- Professional experience of at least 3 years working in “fusion” or “Big Science” related projects.

B2. Advantageous Selection Criteria

In addition to the above, the following criteria will be taken into account:

- Experience of at least one year in design or manufacturing of nuclear components.
- Experience of at least one year in public procurement of complex technical systems.
- Experience of at least one year in project management related activities in support of the procurement of complex technical systems.
- Experience of at least one year in systems engineering related activities behind the procurement of complex technical systems.
- Experience of at least one year in Joining Techniques, e.g. welding, brazing, diffusion bonding, hiping or in Materials development or mechanical characterization.
- Experience of at least one year in fabrication control procedures, Non-Destructive examination (ultrasonic, radiography etc) or in Geometric Dimensioning and Tolerancing (GD&T).

B3. Competencies

The following competences will also be assessed:

- Good analytical capabilities.
- Strong communication skills.
- Good organisational skills.

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: <https://fusionforenergy.europa.eu/vacancies/>

You must register your application online through the F4E E-recruitment platform by creating a valid F4E user account and submitting the documents mentioned below. Fusion for Energy (F4E) is currently working to further develop F4E's selection process. The application for this vacancy notice will serve as a pilot for the new recruitment platform which means that you – even if you have previously applied for an F4E vacancy – will be asked to register a new user account and complete information on the platform, in addition to submitting your CV and Motivation Letter. We appreciate any feedback you may have regarding your user experience: hr-selections@f4e.europa.eu

Please note that the online e-recruitment application platform is the only acceptable means of submitting/sending in job applications. You are responsible for keeping your e-mail addresses and personal details up to date in your profile in F4E online application tool.

The mandatory fields in the profile marked with an asterisk should be duly filled in and you are requested to submit the following two 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

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**Applications must be complete and validly submitted by the closing date for submission of applications
No later than 20/12/2024 at 12h00 noon Barcelona time.**

In case you encounter technical problems when trying to submit your application via the e-Recruitment tool, please take a screenshot and send it to hr-selections@f4e.europa.eu. It is your responsibility to inform F4E about any technical problem immediately, 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.

[Conditions of employment](#)

Successful candidates will be placed on a Reserve List, and one of the candidates thereon may be offered this position.

For more information on the selection process of Temporary Agents and on the contractual and working conditions, please, refer to the “[Guide for applicants](#)” published on the F4E website along with this Vacancy Notice and the [Conditions of employment of Other Servants of the European Communities](#).

How is your data protected?

'Fusion for Energy' as the body responsible for organizing the selection process, will ensure that your personal data are processed as required by Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC Text with EEA relevance. 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.

You have the right to access and rectify your 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.

Vacancy published on F4E website on 21/11/2024.

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

ii 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.

iii Before their 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.

iv 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.