

Call for expression of interest for the establishment of a list of prospective individual experts to provide expertise to Fusion for Energy

1. Background – What is Fusion for Energy?

The European Joint Undertaking for ITER and the Development of Fusion Energy, (hereinafter “Fusion for Energy”) has been established by the Council of the European Union ¹with three objectives:

- Providing Europe’s contribution to the ITER International Fusion Energy Organisation as the European Domestic Agency;
- Providing Europe’s contribution to the Broader Approach agreement between Euratom and Japan (JT60-SA, IFMIF-EVEDA and IFERC projects) as the Implementing Agency;
- Preparing for the construction of demonstration fusion reactors (DEMO).

Further information on the organisation and activities of Fusion for Energy can be found on its web site at:

<http://fusionforenergy.europa.eu/>

2. Tasks of the Experts

Fusion for Energy hereby invites applications from individuals with a view to establishing a list of individual independent experts who could be called upon to:

- to provide technical expertise related to their area of expertise
- to provide expertise to support the evaluation of proposals
- to provide expertise to support the evaluation of tenders
- to provide expertise to support specific design work
- to provide support in the evaluation of R&D results
- to attend meetings and provide where required advice, scientific reports or guidance documents
- to participate as experts in working groups

The tasks entrusted to an expert shall involve neither the exercise of public authority nor the use of discretionary power of judgement.

The list shall be valid from a period of five years from the publication of this call.

3. Technical Areas of the Experts

Prospective experts are expected to have skills and knowledge appropriate to the areas of activities in which they might be asked to assist.

Prospective experts are expected to have the appropriate language skills and in particular a command of the English language both written and verbal.

Prospective experts are also expected to have a high level of professional experience in one or more of the following areas of activities:

List 1- ITER /JT-60SA/IFMIF-EVEDA

- 1.1 - Complex civil constructions, nuclear buildings

¹ OJ L 90/58 of 30.3.2007

- 1.2 - High and medium voltage power supplies
- 1.3 - Planning and scheduling
- 1.4 - Quality Assurance
- 1.5 – Earned Value Management
- 1.6 - Risk and cost assessment
- 1.7 – Industrial Intelligence
- 1.8 – Organisational Research
- 1.9 – Specific Legal Matters
- 1.10 - Tokamak machine design
- 1.11 - Transport of large components and logistics
- 1.12 - Superconducting cables and magnets
- 1.13 - Pressure vessels for nuclear applications and complex welded structures
- 1.14 - Components subjected to high thermal loads
- 1.15 - Assembly of large components
- 1.16 - Remote Handling systems for nuclear environment (incl. mechanics, electronics, SW)
- 1.17 - Applied plasma physics
- 1.18 - Plasma diagnostics
- 1.19 - Tokamak machine diagnostics
- 1.20 - Plasma engineering
- 1.21 - Heating & current drive systems
- 1.22 - Instrumentation & data acquisition
- 1.23 - CAD-related technologies (CAD, Project Lifecycle Management)
- 1.24 - Complex manufacturing processes involving relevant fusion materials
- 1.25 - Water chemistry & corrosion technologies
- 1.26 - Materials testing (destructive and non-destructive tests, post irradiation tests)
- 1.27 - Engineering analysis (Structural Civil & Mechanical, Thermal, Neutronic, Electromagnetic)
- 1.28 - Design codes and standards
- 1.29 - Nuclear safety
- 1.30 - Tritium technology
- 1.31 - Cryogenic technology & cryolines
- 1.32 - Vacuum technologies and components
- 1.33 - Leak detection technologies
- 1.34- Nuclear fusion components (breeding blankets, first wall, divertor) design
- 1.35 - Nuclear fusion components fabrication technologies
- 1.36 - Lithium and PbLi technologies
- 1.37 - Fusion materials development and characterization
- 1.38 - Ion accelerator technologies

List 2 - IFERC

- 2.1 - Technology related to high performance supercomputers
- 2.2 - Infrastructures related to high performance supercomputer installations
- 2.3 - Software parallelisation techniques
- 2.4 - Advanced computer modelling of plasmas (MHD, Transport, Edge, ..)
- 2.5 - Advanced computer modelling of materials (neutron damage)
- 2.6 - System design of fusion reactors
- 2.7 - Socio-economic aspects for fusion reactors
- 2.8 - Remote participation techniques for large experimental installations

Prospective experts may apply to one or more sub-group in one or more lists.

4. Conditions of Appointment

Experts on the list that shall possess the appropriate expertise and competences for the task in question may be appointed by Fusion for Energy.

The appointment of the expert is effected through the signature of a contract between the expert as a natural person and Fusion for Energy. Fusion for Energy does not intervene in any agreements between his/her actual employer and the expert.

For a given expert, all his appointments by Fusion for Energy shall be for a duration not exceeding 100 days per calendar year and a maximum of 500 days within the entire 5 years duration of the validity of the list.

Experts are not remunerated but will be entitled to a *per diem* compensation for each full day of work amounting to **450 Euros per day**.²

If the expert is required to carry out the tasks away from home, he/she shall be entitled to a flat rate subsistence/accommodation allowance and the reimbursement of travel expenses according to the Fusion for Energy's Rules on the reimbursement of expenses incurred by people from outside Fusion for Energy invited to attend meetings in an expert capacity.

The detailed contractual information together with the model contract and Fusion for Energy's travel and subsistence rules are available on the Fusion for Energy website:

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

5. Eligibility Criteria

In order for their candidature for be eligible, experts should provide a complete application. Experts shall not appear on the list and be appointed if they are in any of the situations listed bellow and will be required to sign a declaration to that effect:

- a) they are bankrupt, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities, are the subject of proceedings concerning those matters, or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- b) they have been convicted of an offence concerning their professional conduct by a judgment which has the force of *res judicata*;

² The Expert may decline to receive a *per diem* payment, especially if that would be in a non-compliance with his contractual or other legal obligations.

- c) they have been guilty of grave professional misconduct proven by any means which the Joint Undertaking can justify;
- d) they have not fulfilled obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which they are established or with those of the country of the Joint Undertaking or those of the country where the contract is to be performed;
- e) they have been the subject of a judgment which has the force of *res judicata* for fraud, corruption, involvement in a criminal organisation or any other illegal activity detrimental to the Joint Undertaking's or the Communities financial interests;
- f) they are currently subject to an administrative penalty imposed by the Community institutions as referred to in the general Financial Regulation of the European Communities.

6. How to Apply

Please refer to the following website for detailed instruction on how to apply and to complete the application form <https://experts.fusionforenergy.europa.eu/Submissions.aspx>

Applications delivered by mail, courier service or non-designated e-mail addresses will not be accepted.

The list is drawn up for a 5 year period from the date of publication of this call. Applications may be submitted at any time, up to the last 3 months of validity of the list.

7. Data Protection

Any personal data provided by the individual expert shall be processed pursuant to European Regulation related to personal data protection, in particular Regulation (EC) No 45/2001 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movements of such data. It shall be processed solely for the purpose 'to manage applications in view of selection by F4E. The expert shall have the right of access to his personal data and the right to rectify any such data that is inaccurate or incomplete. Should the expert have any queries regarding the processing of his/her personal data, he shall address them to the Data Protection Officer of Fusion for Energy.