

Unleash your business potential with fusion technologies

Fusion Technology Transfer Demonstrator Calls 2026 - Information Webinar

03/06/2026 - 15:00 CEST

Agenda

1. Introduction and General Presentation
2. Presentation of the F4E Demonstrator Call
3. Presentation of the EUROfusion Demonstrator Call
4. Q&A

Introduction



Fusion for Energy (F4E) is the European Union's organisation for Europe's contribution to ITER — the biggest scientific experiment on the path to fusion energy.

One of the main tasks of F4E is working together with European industry, SMEs and research organisations to develop and provide a wide range of high-technology components together with engineering, maintenance and support services for the [ITER project](#).

F4E also collaborates with Japan through the Broader Approach agreement to advance fusion know-how with [projects](#) like IFMIF-EVEDA, IFERC and JT-60SA, the largest operational tokamak to date.

F4E also contributes to IFMIF-DONES, a world-leading [facility](#) in Granada (Spain) to test materials for future fusion reactors.



EUROfusion is a European-wide consortium of fusion research bodies. It brings together 29 member institutes, 3 associated partners and 169 affiliated entities from across Europe.

It coordinates, supports and funds fusion research activities on behalf of EURATOM in 26 EU member states plus Ukraine, while Switzerland, Norway and the United Kingdom participate with their national budgets. The EUROfusion programme has two main pillars: preparing for ITER experiments and developing a concept for the future demonstration fusion power plant (DEMO).

The EUROfusion consortium collaborates with Fusion for Energy and the ITER Organisation; and is a Member of EIROforum.





What we do

The EUROfusion and F4E technology transfer programmes aim to maximise the potential of fusion breakthroughs and transfer them to non-fusion markets.

The European Fusion Technology Marketplace presents a rich portfolio developed by EUROfusion research laboratories and F4E's industrial partners.

Our experts work to identify their business potential and to facilitate their commercial use. Our services are offered to all companies looking for new market opportunities.

We are here to help entrepreneurs, scientists and business willing to integrate fusion technologies in the development of their products.

Presentation of the F4E Demonstrator Call



Open call for technology transfer demonstrators



50k€ to further use technologies developed under F4E activities (ITER project, IFMIF, IFERC, JT-60SA) in new applications

Cut-off dates: 31st of July 2026



Open call for technology transfer demonstrators



50k€ for receiver+ 3PM for fusion scientist support to further use technologies developed under EUROfusion/EFDA activities in new applications

Cut-off dates: 31st of July 2026



Fusion technology transfer award 2025



10k€ to reward the commercial use of fusion technologies in non-fusion markets – Achieved or on-going initiative

Presentation of the F4E Demonstrator Call

F4E Technology Transfer Programme objective

To promote the technologies developed by Fusion for Energy's industrial partners by making them widely available and commercially viable to industry. As brokers, we closely work with F4E suppliers to support you in finding new business opportunities (customers, partners, new applications, etc.) for the developments made under F4E contracts.

F4E Demonstrator Call

Two grants of up to 50.000€ each are available for demonstrator projects that apply fusion-derived technologies, expertise or methodologies to the market. Proposals should focus on validating use cases, advancing market readiness and demonstrating clear value in industrial environments. **The market application could be the fusion private sector or non-fusion.**

The market application foreseen shall not promote activities, or be related to the military, alcohol, tobacco, religion, politics, intolerance, violence, firearms, pornography, obscenity, gambling or illegal drugs.





Which Technologies are eligible ?

Technologies, skills, or know-how developed under F4E activities.
Some of these technologies can be found in [European Fusion Technology Marketplace](#)

Who can apply ?

European (+ Switzerland) companies and organisations (registered in a F4E Member State). **It could be the developer of the technology** (usually this is the case).

Funding: up to 50.000€ per project (up to 2 projects will be funded)

Duration: maximum 12 months from the contract signature

Submission: The application must be submitted in English by email to brokers@viromii.com adding technologytransfer@f4e.europa.eu in cc.

Evaluation Criteria:

Feasibility	30%	The technical feasibility and soundness of the proposed approach to overcome the technical barriers and enable the use of the technology in the market. The realism and adequacy of the proposed budget and timeline in relation to the objectives of the demonstrator.
Commercial Potential	40%	The extent to which the proposal enables the commercial exploitation of the technology in a specific market. The existence of an already identified customer or potential customer(s) or potential user(s) for the new/improved product or service. The estimated time-to-market for the new/improved product or service. The expected increase in Technology Readiness Level (TRL) of the technology for its application.
Socio-economic impact	30%	Expected socio-economic benefits derived from the application of the technology in the market, both for the Applicant and for society (potential societal benefits, such as job creation, improved productivity, cost savings, higher product quality, increased operational safety or comfort, energy efficiency, and technical advancements in the target market)

Evaluation Criteria

Feasibility (30%)

Commercial Potential (40%)

Socio-Economical Impact (30%)

Proposal

Proposal must be submitted in English, and must consist of:

- Cover Letter.
- Executive Summary: Maximum 1 page.
- Application: Maximum 5 pages - based on the document 'Proposal template'
- Annexes proving the information stated in the application form are allowed.

Relevant documents

All relevant documents are available in the [Fusion Technology Transfer Demonstrator Call website](#):

- General Information
- Cover Letter and Guidelines
- Proposal Template and Guidelines



Example:



50.000€ for upgrading an ITER cable technology and apply it in fields like particle accelerators, space or nuclear fission

Axon' Cable was involved in the ITER Divertor Remote Handling System, a robotic tool that will work in the extreme conditions of the fusion reactor. Under a contract with F4E, the firm developed Flexorad® RF, a coaxial cable designed to meet the critical safety, reliability, and manoeuvrability needs of ITER thanks to special materials and manufacturing processes.

- Compatible with cryogenics (at temperatures down to 4 K or -269.°C)
- Ultra-high vacuum (UHV)
- Radiation hard (up to 3.5 MGy)
- Fire retardant
- Halogen-free
- Highly flexible.



- Raising the maximum operating temperature from 125°C to 240°
- Increase radiation tolerance to 20 Mgy
- Reduce outgassing for the most demanding vacuum conditions.

Non-fusion applications:

- Aerospace
- Particle Accelerators
- Marine and underground transportation

Presentation of the EUROfusion Demonstrator Call

FUTTA IV Objectives

FUTTA = EUROFUSION TECH TRANSFER AND INNOVATION PROGRAMME

- EUROfusion supports and funds fusion research activities on behalf of the European Commission's Euratom programme
- Promoting and fostering fusion technology transfer
- Sourcing and supporting innovative projects in Europe

Fusion Scientists



Development of innovative fusion technologies and know-how (materials, modelling, sensors, electronics, robotics)

Looking for new R&D/business opportunities outside fusion



Connecting fusion and non-fusion ecosystems

Access to a Technology Marketplace

Operational Support from Technology Transfer Brokers (European network, mediation with new customers/suppliers)

Communication support / Funding opportunities

Non fusion industries/labs



Industry, entrepreneurs or non fusion laboratories willing to tackle R&D challenge and/or add value to their products and services

Looking for new technologies

We are a European Network



Initiative is **led by EUROfusion** and managed in collaboration with **In Extenso Innovation Croissance**

6 technology transfer brokers and market experts with European presence (Note: countries with not local brokers are covered by IEIC)

Business mindset and strong interface with non-fusion industries (big science, aerospace, energy, automotive, electronics, agrifood, healthcare....)

Historical network of brokers implemented by the European Space Agency and Fusion for Energy



Who can apply ?

Every potential receiver of a EUROfusion-based technology or know-how : industries, startups, non fusion laboratories

EUROfusion Beneficiaries (members and Affiliated Entities) **do not have the right to apply to this call**, neither as main applicant nor subcontractor of the applicant (within the 50k€ envelope)

EUROfusion Beneficiaries can however be supported :

- **up to 25% Full Time Equivalent** (=3 person months) for fusion laboratory
 - Need to be involved in a project with a non fusion applicant
 - For this purpose, applicants should make a specific request in the proposal (name, type of activity, name of researcher) and make a specific request in the EUROfusion system parallel to the project
 - Extra support inline with the EUROfusion co-funding rules and reimbursement rates
- can place a subcontract/collaboration agreement with the applicant but outside the demonstrator funding (co-funding provided by the receiver)

Requirements

Permanent Open Call with cut-off date this year : 30/07/2026.

Amount : **up to 50.000 EUR** to cover the demonstration technical costs

- Acceptable costs : workforce, materials, meetings, equipment.

Priority to projects with **clear non-fusion application** (commercial or R&D), with a defined needs, and for whom the transfer demonstrator may be used to gain commercial traction or further developments

Language : **English**

Contains : Cover Letter (1P) + Executive Summary (1P) + full proposal based on the document 'Proposal template' (max 10P without annexes)

Content of the proposal (See the documents 'Cover Letter' and 'Proposal template')

- Description of the EUROfusion origin/heritage of the technology or know-how
- Description of the non-fusion application targeted, and competitive advantage created by the fusion technology
- Intellectual Property
- Details on the work to be undertaken for the Transfer Demonstrator
- Expected follow-up of the Transfer Demonstrators

Submission: The application must be submitted in English by email to nicolas.louee@inextenso-innovation.fr adding technologytransfer@euro-fusion.org in cc.



Example of successful demonstrator projects supported



Fusion data science for Frozen Fries production



Casting mold materials made of Tungsten fiber Composites for high-temperature die casting



Extended reality, haptic robot and digital twin nuclear reactors decommissioning



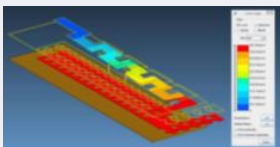
Spotting the small defects at high speed on fiber optics production lines



Tokamak plasma equilibrium computation code for new aerospace hold-down and non-explosive release mechanisms



Cancer research at the speed of light



MUSCLE 3 Coupling Software for RF MEMS switch devices simulations



Development and characterization of hydrogen sensor for brass alloys

FAQs

- **What is meant by “fusion technology” ?**

A technology or know-how developed under an EUROfusion/EFDA project

- **Can I submit a project longer than 6 month ?**

6 month is the maximum delay to perform the milestone corresponding to the 50k€ budget but can be part of a longer project

- **Is it possible to present a project >50k€ ?**

Yes, but the funding will be maximum 50k€ (expenses above is covered by the applicant)

It is also possible to submit a project < 50k€

- **I am an EUROfusion Member or Affiliated Entities, can I apply without an identified potential client/partner ?**

No, you can only request the 3P.M. support parallel to the main applicant

- **Is it possible to candidate with a lab and not a company ?**

Yes, if the lab is not a EUROfusion beneficiary

- **Can the receiver be outside of Europe ?**

Yes, this should be handled on a case-by-case basis, as it depends on the country.

- **What about the reporting ?**

The reporting process will remain light, with one progress report and one final report, including a technical and a financial section.

Q&A Session

Open Discussion – Do not hesitate to share with us your first ideas

Participants who requested an individual exchange have already been contacted, or will be contacted soon, to schedule a dedicated meeting in the coming days and weeks

Visit our marketplace :



More information on
the Open Calls :



Unleash your business potential with fusion technologies

Thank you for your participation

Contacts :

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