

EUROFUSION-BASED TECHNOLOGY TRANSFER DEMONSTRATORS

Call for expressions of interest

2025

In Extenso Innovation Croissance



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WHO WE ARE

EUROfusion, the ‘European Consortium for the Development of Fusion Energy’, manages European fusion research activities on behalf of Euratom. Twenty-eight members, representing 25 European Union member states plus Ukraine, signed the agreement of the EUROfusion Consortium. In addition, the United Kingdom and Switzerland participate as Associated Partners and about 160 Affiliated Entities contribute to the research activities through the Consortium members.

The European scientific programme is based on the Roadmap to the Realisation of Fusion Energy. The programme has two aims:

- Preparing for ITER experiments
- Developing concepts for the future fusion power demonstration plant DEMO

The 29 Consortium members receive funding for fusion projects in accordance with their participation in the missions and experiments outlined in the Roadmap.

Another facet of the EUROfusion programme is to support fusion education and training through the EUROfusion Research Grant and EUROfusion Engineering Grant schemes. EUROfusion also supports diverse research projects in the participating laboratories through the Enabling Research scheme.

In the meantime, fusion activities are generating an increasingly meaningful number of fundamental technologies for the future of energy. Since 2014, EUROfusion operates Fusion Technology Transfer Activities (FUTTA) with the support of a network of brokers, available funding opportunities for technology transfer demonstrators and new tools in order to go further in the dissemination and exploitation of the IPR of EUROfusion beneficiaries toward industry. With a Consortium featuring 6 brokers, the EUROfusion Technology Transfer Programme aims at promoting and fostering fusion technology transfer by sourcing and supporting innovative projects in Europe.

OBJECTIVE

As part of efforts to promote the use of EUROfusion technologies and know-how, FUTTA regularly supports fusion technology transfer demonstrator projects to reduce technical risk and add value to the new non-fusion applications. In Extenso Innovation Croissance has been entrusted by EUROfusion as prime contractor to set up, implement and manage this activity.

In line with our mission, we are pleased to invite expressions of interest for demonstrators regarding the transfer of a EUROfusion-based technology and know-how into non-fusion applications

Note that **no transfer of funds from either EUROfusion or In Extenso Innovation Croissance is foreseen under the terms of this call**. The objective is to prepare the future open call for demonstrators which is expected by end 2025.

More information about previous open calls or funded projects: <https://fusion-technology-transfer.europa.eu/open-call-for-fusion-technology-transfer-demonstrator-proposals/>

ELIGIBILITY CRITERIA

Technology Transfer Demonstrator projects support the transfer of EUROfusion-related¹ technology and know-how to non-fusion applications where there is a strong commercial or societal benefit and there is a clear technical risk that can be eliminated.

This invitation for expressions of interest is open to the **EUROfusion Beneficiaries and any potential receiver of a EUROfusion-based technology or know-how** (non-fusion laboratories or industries) who has a technology transfer business case. Demonstrator projects can support initiatives as kick-starter or accelerator: all initiatives and technology readiness levels (TRL) are welcome at this stage.

Interested parties are encouraged to contact their local brokers and/or review the website <https://fusion-technology-transfer.europa.eu/fusion-technology-portfolio/> with information of EUROfusion technologies and know-how that could address their needs.

SUBMISSION REQUIREMENTS

Applicants responding to this call should provide a summary of the technology transfer business case within 3 pages maximum, in English and covering the following aspects:

- Descriptive Title: *Provide an easily understandable title*
- EUROfusion origin/heritage: *Indicate the link between the technology or know-how with EUROfusion activities and specify which key technology developments have been made so far in fusion applications (including any intellectual property). Name the laboratory involved if possible.*
- Non-fusion application: *Indicate which non-fusion market opportunity has been identified and why the technology under development may provide significant advantages and added value for this application. Explain briefly the potential socio-economic impact of this initiative and name the non-fusion laboratory or company involved if any.*
- Status of the business case: *emerging idea, feasibility study, proof of concept, on-going discussion or project between EUROfusion beneficiary and potential receiver*
- Work Implementation: *Describe the technological step to be taken during the implementation of the Transfer Demonstrator project and present briefly the resources required to achieve the objective.*

You can express your interest by sending the requested summary to the following email addresses together with evidence confirming that your organization meets the “Eligibility Criteria”

technologytransfer@euro-fusion.org and eurofusionttpo@inextenso-innovation.fr

The call for expressions of interest will remain open until the launch of the next permanent FUTTA open call for technology transfer demonstrator (expected end 2025) and submissions will be reviewed periodically.

¹ All technology and know-how developed within the activities of the EUROfusion agreement (EFDA, EUROfusion, EFDA with IPR added under EUROfusion, EURATOM on Copyright) would be accepted. A clearly identified link between the technology and EUROfusion will have to be claimed (mention to the Annual Work Plan, a Work Package or Project for example)

COLLABORATION PROCESS

After receiving your application and confirming receipt, we will follow the steps below:

- **Assessment** : EUROfusion and In Extenso Innovation Croissance will assess the soundness, technical objectives of the technology transfer initiative. During the assessment, it is likely that we will ask for direct interactions with the applicant to clarify any information.
- **Feedback and guidance towards the submission of a proposal to the future open call**: when there is an interest, the pre-selected applicants will be invited to submit a proposal to the next open call for technology demonstrators. In any case, every applicant will receive individual feedback and guidance on how to improve their business case in order to apply to future open calls.

Extract of the requirements of the 2022-2024 FUTTA permanent open call

- The Open Call for EUROfusion-based Technology Transfer Demonstrator will be a permanent Open Call with one cut-off date per year.
- At each cut-off date, In Extenso Innovation Croissance, together with EUROfusion, can select indicatively 2 projects to be funded with a maximum amount of 50.000 EURO each
- Every potential receiver of a EUROfusion-based technology or know-how is eligible for this proposal.
- **It is worth noting that EUROfusion Beneficiaries (members and Affiliated Entities) will not be eligible to apply to this call, either as main applicant or as subcontractor** (issues with EUROfusion sub-contracting EUROfusion Beneficiaries via the EUROfusion Technology Transfer Programme contract). However, EUROfusion Beneficiaries (members and Affiliated Entities) can be supported up to 25% Full Time Equivalent (3 person months) for fusion scientist/s through the work package FUTTA, in line with EUROfusion's co-funding rules and reimbursement rates. For this purpose, applicants should make a specific request in the proposal, together with the respective EUROfusion beneficiary or affiliated entity. These resources (max 3 person months) for the EUROfusion Beneficiary or Affiliated Entity will be made available through a EUROfusion task agreement, separately from the contract between InExtenso and the company.
- Priority is given to projects where there is a clear non-fusion commercial application with a customer group with defined needs, and for whom the transfer demonstrator may be used to gain commercial traction. The limited amount of funding available per project means that projects must be efficiently managed with a clear definition of the technical risk to be tackled.

For more information regarding the general information, proposal templates, evaluation criteria from previous calls : https://fusion-technology-transfer.europa.eu/wp-content/uploads/2024/05/FUTTA-III-Open-Call-for-TT-Demonstrators-General-Information-update-february-2024_final-2.pdf