El Séptimo Programa Marco de I+D de la Unión Europea

Cómo tener éxito en las convocatorias 2013

VII Programa marco de Euratom
Programa de trabajo 2013

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VII Programa marco de Euratom – Conv. 2013

Euratom WP 2013: Algunos apuntes sobre la I+D nuclear en 1 transparencia

• Los organismos más activos en I+D para la energía nuclear (Centros de Investigación, Universidades, Ingenierías, Empresas de servicios, Organismos públicos [ENRESA, CSN], empresas públicas como (ENSA y ENUSA) y compañías eléctricas) se coordinan dentro del CEIDEN (plataforma industrial española para la energía nuclear).

• El CEIDEN recibe información puntual (cada 3 a 6 meses) sobre apertura de convocatorias, resultado de evaluaciones, participación española y otras oportunidades ofrecidos por los programas de EURATOM Fisión.

• Principales fuentes de financiación pública para la I+D nuclear:
  - Planes de I+D de ENRESA y el CSN
  - Financiación de centros de I+D, Universidades, organismos y empresas publicas con actividades de I+D
  - Convocatorias orientadas de los Ministerios
  - Convocatorias de investigación no orientada de los Ministerios
  - Convocatorias de cooperación internacional de los Ministerios

• Principales fuentes de financiación privada: Compañías eléctricas, de ingeniería y servicios

• Participación en proyectos de I+D de Euratom Fisión: Centros de Investigación, Universidades, Empresas de Ingeniería y servicios y algunas empresas públicas.
Información y Estadísticas del 7PM EURATOM (Fisión)

EU contribution and number of participations per country in Euratom FP7 (fission)

Número de coordinadores por país

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• 4 rounds of intense discussions resulting in significant text modifications.
• Smooth transition towards the new research and innovation programme for 2014-2020, **Horizon 2020**
• EU energy policy developments under the SET-Plan and the Energy 2020 strategy
• A financial catalyst triggering further stakeholder investments and **joint programming** in key topics as part of **national and corporate R&D programmes**
• **In the area of nuclear systems and safety**, Euratom projects will contribute to the pre-conceptual design and related pan-European (SNETP) activities insofar as this effort remains **exclusively focused on safety** (Fukushima).
• **In nuclear waste**, Euratom will continue supporting joint research activities on deep geological disposal to ensure the operation of the first repositories in the EU by 2020-25. The work in both these areas is in line with **SET-Plan objectives**.
• **In the area of radiation protection**, joint research activities will address the concerns of European citizens on the possible long-term health effects of low radiation doses, especially from the use of radiation in medical diagnostic and therapeutic techniques.
• Cooperation between Euratom and OECD/NEA and IAEA. **European Energy Research Alliance (EERA)** could be a platform to promote energy enabling technologies and/or stimulate cross-cutting research activities
• Stimulating **joint funding from Member States** and/or enterprises and benefits should be taken from the increasing interaction between the **Technology Platforms (SNETP, IGD-TP, MELODI)** and other stakeholder fora at the Union level.
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1) From research projects to member state joint programming.

2) The majority of the activities will be to provide catalytic and leveraging support for a preparatory phase (PP), which should aim at optimal coordination, cross-border operation and possible integration of national research actions of pan-European interest in the field of nuclear fission, safety and radioprotection.

3) Project consortia should involve all the stakeholders necessary to make the project move forward, to take decision and to make financial commitments before joint programme(s) can start (e.g. national/regional ministries/governments, research councils, funding agencies). Operators of research facilities, research centres, universities, industry and regulatory authorities should be involved when appropriate.

4) The preparatory phases would include (non exhaustive list):
   a. Strategic work
   b. Management work (planning for at least 10 years)
   c. Governance work
   d. Financial work
   e. Legal work
   f. Technical work

5) Successful Preparatory Phases would lead after two or three years to the implementation of joint programmes, based on public-public and Public-Private Partnerships

6) Specific role indicated for IGD-TP, ENEN, NUGENIA, SNETP, ESNII, EERA, MELODI, HERCA, ESR, Radioecology Alliance and MYRRHA.
Euratom Work Programme 2013: Basic Data.

1) Oriented towards the “Preparatory Phase” for HORIZON 2020

2) Total EU contribution 55.19 M€
   - Management of Ultimate
     Radioactive Waste: 5 M€
   - Reactor Systems: 22 M€
   - Radiation protection: 12 M€
   - Infrastructures: 8 M€
   - Human Resources and Training: 5 M€
   - Cross-cutting actions: 3.19 M€

3) Work program approved: 21/6/2012
   Call published: 10/07/2012
   Deadline for submission: 13/11/2012
   Intended start of projects: ≈1/09/2013
Euratom WP 2013: Claves para el éxito en la convocatoria 2013

• Tener en cuenta la nueva naturaleza de los proyectos solicitados (programación conjunta más que proyectos de I+D)

• Integrar(se) en consorcios lo más amplios posibles bien establecidos y estructurados o relacionado con organizaciones identificadas en la convocatoria:
  - Plataformas Tecnológicas Europeas: IGD-TP, SNETP, MELODI
  - Asociaciones dependientes de SNETP: NUGENIA, ESNII
  - La alianza europea para la I+D en energía: EERA
  - La asociación para la educación nuclear europea: ENEN

• Intentar establecer vínculos con agentes financiadores nacionales

• Integrar en el equipo a personal con experiencia legal, de gestión y de programación de actividades de I+D, junto al personal científico-técnico

• Prestar atención a todos los aspectos de la propuesta:
  - Excelencia científica técnica y relevancia para los temas de la convocatoria
  - Calidad y eficiencia de la implementación y gestión del proyecto (socios y consorcio)
  - Posible impacto y valor añadido de los resultados, métodos de divulgación y distribución de resultados hacia los usuarios finales.
### Euratom WP 2013: Management of Ultimate Radioactive Waste: Fission-1

<table>
<thead>
<tr>
<th>Geological disposal</th>
<th>Fission-1.1.1 Preparatory Phase (PP) for the implementation of new modes of operation of integrated research programmes at European level for the development of solutions related to the management of ultimate nuclear waste</th>
<th>Maximum of one Coordination and Support Action (coordinating)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fission-1.1.2 Support to the IGD-TP SRA and to advances and innovation research in the treatment and/or understanding of key basic and remaining scientific technical issues</td>
<td>Maximum of one Collaborative Project</td>
</tr>
</tbody>
</table>

*IGD-TP*
<table>
<thead>
<tr>
<th>Reactor Systems</th>
<th>Fission-2</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safety of existing nuclear installations</strong></td>
<td><strong>Fission-2.1.1</strong> Preparatory Phase (PP) in support to an efficient EU integrated research programme on safety of existing nuclear installations <strong>NUGENIA+SNETP</strong></td>
<td>Maximum of one Combination of Collaborative Project, Coordination and Support Action</td>
</tr>
<tr>
<td></td>
<td><strong>Fission-2.1.2</strong> Consequences of combination of extreme external events on the safety of Nuclear Power Plants (NPPs) <strong>Regulatory author.</strong></td>
<td>Maximum of one Coordination and Support Action (coordinating)</td>
</tr>
<tr>
<td><strong>Advanced nuclear systems for increased safety</strong></td>
<td><strong>Fission-2.2.1</strong> Preparatory Phase (PP) in support to the development of a federating body to ensure efficient EU coordinated research on Reactor Safety for the next generation of nuclear installations <strong>SNETP+ESNII</strong></td>
<td>Maximum of one Combination of Collaborative Project, Coordination and Support Action</td>
</tr>
<tr>
<td><strong>Cross-cutting aspects for nuclear systems</strong></td>
<td><strong>Fission-2.3.1</strong> Support to the development of joint research actions between national programmes on advanced nuclear materials <strong>EERA JP NM</strong></td>
<td>Maximum of one Combination of Collaborative Project, Coordination and Support Action</td>
</tr>
<tr>
<td><strong>Advanced systems for non-electrical uses of nuclear energy</strong></td>
<td><strong>Fission-2.4.1</strong> Support to the emergence of a possible European Research Initiative on cogeneration</td>
<td>Maximum of one Coordination and Support Action (coordinating)</td>
</tr>
</tbody>
</table>
**Euratom WP 2013: Radiation Protection: Fission-3**

<table>
<thead>
<tr>
<th>Radiation Protection</th>
<th>Fission-3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quantification of risks for low and protracted exposures</strong></td>
<td></td>
<td><strong>MELODI+HERCA+ESR</strong>&lt;br&gt;Preparatory Phase (PP) in support to the Multi-disciplinary European Low Dose Initiative (MELODI) for its development as federating body to ensure cost-efficiency and high-performance of low-dose risk research in Europe&lt;br&gt;Maximum of one Combination of Collaborative Project, Coordination and Support Action</td>
</tr>
<tr>
<td><strong>Medical uses of radiation</strong></td>
<td>Within scope of 3.1.1</td>
<td><strong>MELODI+Japan+USA</strong>&lt;br&gt;Trilateral cooperation on Chernobyl studies&lt;br&gt;Maximum of one Coordination and Support Action (coordinating)</td>
</tr>
<tr>
<td><strong>Emergency and post-accident management</strong></td>
<td></td>
<td><strong>Radioecology alliance</strong>&lt;br&gt;Support to the strengthening of pan-European research initiatives on the impact of radiation on the environment, including the food chain and the protection of non-human species&lt;br&gt;Maximum of one Combination of Collaborative Project, Coordination and Support Action</td>
</tr>
<tr>
<td><strong>National research activities in other areas</strong></td>
<td></td>
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</tbody>
</table>
### Euratom WP 2013: Infrastructures: Fission-4 + Human Resources and Training: Fission-5

<table>
<thead>
<tr>
<th>Infrastructures</th>
<th>Fission-4</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Supporting infrastructures</td>
<td>Fission-4.1.1 Support to the MYRRHA research infrastructure for its development as a pan-European and world-level facility</td>
<td>Maximum of one Coordination and Support Action (coordinating)</td>
</tr>
<tr>
<td></td>
<td>Fission-4.1.2 Support to a pan-European Integrated Research Infrastructure Initiative for increased safety of nuclear systems at EU level</td>
<td>Maximum of one Combination of Collaborative Project, Coordination and Support Action</td>
</tr>
<tr>
<td>Human Resources and Training</td>
<td>Fission-5</td>
<td></td>
</tr>
<tr>
<td>Training of research workers</td>
<td>Fission-5.1.1 Euratom Fission Training Schemes (EFTS) in 'Nuclear Fission, Safety and Radiation Protection'</td>
<td>Maximum of 3 Coordination and Support Action (coordinating)</td>
</tr>
</tbody>
</table>
**Euratom WP 2013: Cross-cutting Actions: Fission-6**

<table>
<thead>
<tr>
<th>Cross-cutting Actions</th>
<th>Fission-6</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Cross-cutting actions</strong></td>
<td><strong>Fission-6.0.1</strong></td>
<td>Widening involvement in the 'Fission, Safety and Radiation Protection' Programme</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum of 3 Coordination and Support Action (coordinating)</td>
</tr>
<tr>
<td></td>
<td><strong>Fission-6.0.2</strong></td>
<td>Education / training / information towards the public</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximum of one Coordination and Support Action (coordinating)</td>
</tr>
<tr>
<td></td>
<td><strong>Fission-6.0.3</strong></td>
<td>Towards a socio-economic analysis of FP7 Euratom actions</td>
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<tr>
<td></td>
<td></td>
<td>Maximum of one Coordination and Support Action (supporting, expert appointment letters)</td>
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</tbody>
</table>
### Euratom WP 2013: Other actions

<table>
<thead>
<tr>
<th>Contribution</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to the Organisation for Economic Co-operation and Development (Nuclear Energy Agency) / Secretariat for the Generation-IV International Forum (GIF)</td>
<td>150000 EUR</td>
</tr>
<tr>
<td>Studies for the ex-post evaluation of Euratom Framework Programmes in the period 2007-2013</td>
<td>300000 EUR</td>
</tr>
<tr>
<td>Experts contracts (could be established)</td>
<td>400000 EUR</td>
</tr>
</tbody>
</table>

### Euratom WP 2013: INDICATIVE PRIORITIES FOR FUTURE WPs AND CALLS

The 2013 work programme is expected to prepare the implementation of Horizon 2020, which will place a stronger emphasis on joint programming actions and Public-Private Partnerships.
## Evaluation criteria 1/4

<table>
<thead>
<tr>
<th>Evaluation criteria → Funding scheme ↓</th>
<th>1. Scientific and/or technological excellence (relevant to the call) (award)</th>
<th>2. Quality and efficiency of the implementation and the management (selection)</th>
<th>3. The potential impact through the development, dissemination and use of project results (award)</th>
</tr>
</thead>
</table>
| All funding schemes                   | • *Soundness of concept, and quality of objectives* | • Appropriateness of the management structure and procedures  
  • Quality and relevant experience of the individual participants | • *Contribution, at the European [and/or international level], to the expected impacts listed in the work programme under relevant topic/activity* |
| Collaborative Projects                | • *Progress beyond the state-of-the-art*  
  • Quality and effectiveness of the S/T methodology and associated work plan | • Quality of the consortium as a whole (including complementarity, balance)  
  • Appropriateness of the allocation and justification of the resources to be committed (staff, equipment)  
  • Efficient and long-term data management at EU level | • Appropriateness of measures for the dissemination and/or exploitation of project results, and management of intellectual property. |
### Euratom WP 2013: Evaluation criteria 2/4

<table>
<thead>
<tr>
<th>Evaluation criteria → Funding scheme ↓</th>
<th>1. Scientific and/or technological excellence (relevant to the call) (award)</th>
<th>2. Quality and efficiency of the implementation and the management (selection)</th>
<th>3. The potential impact through the development, dissemination and use of project results (award)</th>
</tr>
</thead>
</table>
| Networks of Excellence                | • *Contribution to long-term integration of high quality S/T research*  
  • Quality and effectiveness of the joint programme of activities and associated work plan | • Quality of the consortium as a whole (including ability to tackle fragmentation of the research field, and commitment towards a deep and durable integration)  
  • Adequacy of resources for successfully carrying out the joint programme of activities  
  • Efficient and long-term data management at EU level | • Appropriateness of measures for spreading excellence, exploiting research potential, and disseminating knowledge, through engagement with and between stakeholders and the public at large. |
| Co-ordination & Support Actions       | • (not for SA)  
  Contribution to the co-ordination of high quality research  
  • Quality and effectiveness of the co-ordination mechanisms, and associated work plan | • *Quality of the consortium as a whole (including complementarity, balance)*  
  [for SA: only if relevant]  
  • Appropriateness of the allocation and justification of the resources to be committed (staff, equipment) | • Appropriateness of measures for spreading excellence, exploiting research potential, and dissemination of knowledge, through engagement with and between stakeholders, and the public at large. |
### 1. S/T QUALITY

‘Scientific and/or technological excellence (relevant to the topics addressed by the call)’

- Clarity of the objectives and quality of the concept.
- Contribution of the overall project to the provision of integrated services and to the co-ordination of high quality research.
- Quality and effectiveness of the Joint Research Activities and associated work plan: The extent to which the activities will contribute to quantitative and qualitative improvements of the services provided by the infrastructures.
- Quality and effectiveness of the co-ordination mechanisms and associated work plan: The extent to which the Networking Activities will foster a culture of co-operation between the participants, and enhance the services to the users.
- *(whenever appropriate)* Quality and effectiveness of the Trans-national Access and research services, and associated work plan: The extent to which the activities will offer high quality services, access to state-of-the-art research infrastructures, and will enable users to conduct high quality research.
### 2. IMPLEMENTATION

‘Quality and efficiency of the implementation and the management’

- Appropriateness of the management structure, the management procedures, and the implementation plan to achieve
- Quality and relevant experience of the individual participants and quality of the consortium as a whole (including complementarity, balance, critical mass).
- Appropriate allocation and justification of the resources to be committed (staff, equipment), by task and participant.
- Efficient and long-term data management at EU level

### 3. IMPACT

‘Potential impact through the development, dissemination and use of project results’

- Contribution at the European level of the Joint Research Activities towards an optimum development of European capacities, knowledge and technologies.
- Contribution at the European level of the collaborative arrangements put into place and the perspectives for their long-term sustainability, towards a structuring impact on the pool of research capacities in Europe.
- (whenever appropriate) Contribution at the European level of the access and service activities towards an improved access to - and use of - the pool of research infrastructures and new opportunities of access and use for researchers from across the EU.
- Appropriateness of measures envisaged for the management of intellectual property and for the dissemination and/or exploitation of project results.
The reimbursement of eligible costs (including the different options for flat rates on indirect costs as established in Article 31 of the Rules for Participation) will be the only form of grant used.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Non-profit public bodies, secondary and higher education establishments, research organisations and SMEs</th>
<th>All other organisations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research and technological development activities</td>
<td>75%</td>
<td>50%</td>
</tr>
<tr>
<td>Demonstration activities</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>Coordination and support actions and actions for the training and career development of researchers</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Management, audit certificates and other activities</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>