



EURATOM



Euratom aims to pursue nuclear research and training activities with an **emphasis on continually improving nuclear safety, security and radiation protection**, notably to contribute **to the long-term decarbonisation of the energy system in a safe, efficient and secure way**. By contributing to these objectives, the Euratom Programme will reinforce outcomes under the three priorities of Horizon 2020: Excellent science, Industrial leadership and Societal challenges.

The indirect actions of the Euratom Programme focus on two areas:

- **nuclear fission and radiation protection**;
- **fusion research** aiming at developing magnetic confinement fusion as an energy source.

The Euratom Research and Training Programme has the following specific objectives:

- Support safety of nuclear systems;
- Contribute to the development of safe longer term solutions for the management of ultimate radioactive waste;
- Support the development and sustainability of nuclear expertise and excellence in the European Union;
- Support radiation protection and development of medical applications of radiation, including, inter alia, the secure and safe supply and use of radioisotopes;
- Move toward demonstration of feasibility of fusion as a power source by exploiting existing and future fusion facilities;
- Lay the foundations for future fusion power plants by developing materials, technologies and conceptual design;
- Promote innovation and industrial competitiveness;
- Ensure availability and use of research infrastructures of pan-European relevance.

To achieve these objectives, the nuclear research activities will be supported by simpler legislation, thereby facilitating access to funding for companies, universities, research institutes in all EU Member States and beyond. In line with the Euratom Treaty, the Programme will run for five years, from 2014 to 2018.

The 2018 call, titled "Nuclear Fission, Fusion and Radiation Protection Research", will be launched on May 15th, 2018 with a **deadline for applications set on September 27th, 2018**.

Call 2018 - “Nuclear Fission, Fusion and Radiation Protection Research”

The use of nuclear technology in the EU has an outstanding nuclear safety record but research is still needed to maintain a high level of safety in operating nuclear facilities, including the treatment and long-term management of associated radioactive waste; and to better understand the risks and hazards associated with the use of radiation in medicine and industry.

The activities funded by the current Work Programme are organised in seven sections:

- **Nuclear safety;**
- **Decommissioning and environmental remediation;**
- **Radioactive waste management;**
- **Education and training;**
- **Radiation protection;**
- **Promote innovation in nuclear safety;**
- **Fusion research.**

In carrying out the activities proposed in the WP, due attention should be paid to education and training and to dissemination of research results through scientific publications, as well as to the exploitation of research results by the stakeholders concerned.

Nuclear safety	
Action	Topic
RIA	Safety assessments to improve accident management strategies for Generation II & III reactors
RIA	Model development and safety assessments for Generation IV reactors
RIA	Research on the safety of Light Water Small Modular Reactors
RIA	Improved nuclear data for energy and non-energy modelling applications
Decommissioning and environmental remediation	
Action	Topic
CSA	Development of a roadmap for decommissioning research aiming at safety improvement, environmental impact minimisation and cost reduction
Radioactive waste management	
Action	Topic
EIP COFUND	European Joint Research Programme in the management and disposal of radioactive waste
Education and training	
Action	Topic
CSA	Availability and use of research infrastructures for education, training and competence building
Radiation protection	
Action	Topic
RIA	Radiation protection research
CSA	Strategy for the exploitation of research results funded under Euratom Research and training Programmes in the field of radiation protection
Innovation in nuclear safety	
Action	Topic
IA	Encouraging innovation in nuclear safety for the benefit of European citizen
Fusion research	
Action	Topic
CSA	Open data access for fusion research

The deadline for applications is September 27th 2018.

RIA: Research and Innovation Action

IA: Innovation Action

CSA: Coordination and Support Action

COFUND: Co-funding of regional, national and international programmes