



## INFORMATION SHEET





## Disclaimer

The content of this document reflects only the GRE@T-PIONEER consortium's view. The European Commission is not responsible for any use that may be made of the information it contains.

## History

Date	Version	Submitted by	Reviewed by	Comments
January 28 <sup>th</sup> , 2021	N°1.0	C. Demazière (CHALMERS)		





## Purpose of the project

The EU-funded GRE@T-PIONEER project aims at developing a specialized education in reactor physics and nuclear reactor safety for PhD and postdoc students, for nuclear engineers, and taken as advanced courses for MSc students. The education encompasses both theory and hands-on training exercises, the latter heavily relying on the use of research/training reactors and of computer-based modelling environments. The aim is for the students to be able to perform nuclear reactor safety simulations understanding all the approximations on which such simulations rely. This is considered essential knowledge in the education of highly skilled nuclear safety analysts. The use of pre-recorded lectures and electronic teaching resources allows students to learn at their own pace and get prepared for the hands-on training sessions. Those sessions, offered both on-site and remotely, use active learning methods under the close supervision and support of the teachers, thus promoting student learning.

## Duration of the research activities

The project started on November 1<sup>st</sup>, 2020 and ends on October 31<sup>st</sup>, 2023.

## Adopted procedures

The project is built upon four main sets of activities:

- A mapping of the stakeholder needs versus course offering and teaching methods.
- The development of teaching materials and resources in the following areas:
  - Nuclear data for energy and non-energy applications.
  - Neutron transport at the fuel cell and assembly levels.
  - Core modelling for core design.
  - Core modelling for transients.
  - Reactor transients, nuclear safety and uncertainty and sensitivity analysis.
  - Radiation protection in nuclear environment.
- The promotion of the project, associated dissemination activities and the actual teaching of the developed courses.
- The overall project management.





## Voluntary participation

Several types of participants involvement are foreseen in the project:

- Via surveys and questionnaires.
- Via interviews with focus groups.
- Via a collaborative workshop.
- Via the courses/workshops and the collection of feedback on those.

Participation to the above activities is voluntary, free of charge and without any further commitment to the project.

The participants are asked for their agreement before any personal information is collected, via informed consent forms to be filled in, when appropriate. Those forms are kept on file. The participants are free to withdraw from participation at any point. Personal data will remain confidential and anonymous.

The participants may also require their data to be deleted and removed at any time by contacting the Data Protection Officer for the GRE@T-PIONEER consortium: Prof. Christophe Demazière (Chalmers University of Technology), e-mail: [demaz@chalmers.se](mailto:demaz@chalmers.se), phone: +46-31-772 3082.

## Possible risks, discomfort or disadvantages

For the teaching activities at nuclear facilities, the participants will have to perform measurement exercises in licensed nuclear installations under radiation protection regime, which guarantees their safety. In order to avoid any potentially harmful radiation exposure, the participants will have to strictly comply with the radiation protection rules of the facilities and follow the directions of the staff. For mitigating risks of exposure, the participants will receive a briefing about the radiation protection rules before entering the facilities and will be supervised by staff members during the entire time spent at the nuclear installations.

No other risk, discomfort or disadvantages are incurred by the participants involvement into the other activities earlier listed.





## Benefits to the subject or others

The participation to the surveys, questionnaires, interviews, and the collaborative workshop allows the participants to influence the shaping of the courses to be developed by the GRE@T-PIONEER consortium, both content-wise and pedagogy-wise.

The participation to the courses/workshops allows the participants to get in-depth knowledge about the modelling of nuclear systems, while innovative pedagogical methods favouring student engagement and learning are implemented.

The participation to the feedback surveys on the courses/workshops allows influencing further improvements of the courses/workshops.

Finally, the participation to the courses/workshops results in the creation of a network of contacts in advanced reactor physics, modelling and safety, between participants from various countries, as well as with the teachers involved in the GRE@T-PIONEER consortium.

## Data protection and confidentiality and privacy policies

The GRE@T-PIONEER consortium strictly applies the regulations expressed in international texts and codes of practices, in particular the General Data Protection Regulation (GDPR). GDPR-compliant tools are used to collect, process and store personal data. In compliance with such regulations, no data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, trade-union membership, health and sex life are processed. Only data with a strict connection with the aim of the project are collected.

The general principles to ensure the protection of personal data are the following:

- When applicable, detailed information is provided on the procedures that are implemented for data collection, storage, protection, retention and destruction and confirmation that they comply with national and EU legislation.
- When applicable, justification is given in case of collection and/or processing of personal sensitive data.

Anonymisation and pseudonymisation procedures are applied. Pseudonymisation of data is only used when necessary (for instance when performing cross-correlation analysis between various data streams), with the anonymisation of data being preferred.

Collected data are saved on secured GDPR-compliant platforms. If the data is to be shared outside the consortium, appropriate anonymization and pseudonymization procedures are applied.





Following the data minimization principles, only the data strictly necessary for the purpose of the research tasks are collected.

Any question about the protection of personal data should be addressed to the Data Protection Officer for the GRE@T-PIONEER consortium: Prof. Christophe Demazière (Chalmers University of Technology), e-mail: [demaz@chalmers.se](mailto:demaz@chalmers.se), phone: +46-31-772 3082.

## Where to get more information

More information about the GRE@T-PIONEER project and consortium can be obtained:

- From the project website: <http://great-pioneer.eu/>
- By following the project on Twitter: [@GREATPIONEER\\_EU](https://twitter.com/GREATPIONEER_EU)
- By following the project on LinkedIn: [GREAT-PIONEER](https://www.linkedin.com/company/great-pioneer)

Questions can be addressed by e-mail to [contact@great-pioneer.eu](mailto:contact@great-pioneer.eu)

## What happens to data, samples and results at the end of the project

Only anonymized and pseudonymized data will be kept after the completion of the project on secured servers. All other personal data will be destroyed.

The analysis of the anonymized and pseudonymized data will be reported in scientific publications and technical reports, as well as presented at conferences, seminars, and meetings. The publications, reports and presentations, when public, will be stored on open access repositories.

