

ENEN PLUS mobility fund for the Heavy Metal Summer School

Heavy Metal Summer School (HMSS), Mol, Belgium, June 15-19, 2020

General information HMSS

The SCK•CEN Academy for Nuclear Science and Technology organizes from June 15-19, 2020 the Heavy Metal Summer School at the SCK•CEN Lakehouse (Mol, Belgium).

During this summer school, participants will gain insight into the state-of-the-art of research focused on the development of MYRRHA and other Heavy liquid metal (HLM)-based nuclear systems. HLM coolants offer new perspectives for the development of innovative nuclear systems for materials research, nuclear waste transmutation and energy production. The Belgian Nuclear Research Centre (SCK•CEN) is at the forefront of HLM nuclear technology worldwide with the development of the MYRRHA accelerator driven system.

The summer school will cover several aspects of HLM technology that are essential for the engineering design and safety of nuclear systems. Lectures will be given by experts from SCK•CEN and other internationally renowned research organizations. They will cover the most advanced HLM-based nuclear systems and deal with the chemical, thermal hydraulic and materials issues and challenges in instrumentation and design. Complementary to the lectures, visits are foreseen to various experimental facilities that were constructed at SCK•CEN in support of the MYRRHA project. Throughout the course week, participants will have the opportunity to brainstorm on best practices and selections of technologies for HLM cooled nuclear systems in interactive sessions with the experts. The official language for this event is English. Places for this summer school are limited to 25. More information can be found on the SCK•CEN Academy [website](#).

Local organizing team

SCK•CEN Academy for Nuclear Science and Technology
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Eligibility for the ENEN PLUS support

The HMSS offers an opportunity to PhD students, post-docs and professionals (preferably having a master degree in physics or engineering) willing to carry out an E&T activity abroad in the nuclear domain of HLM technologies. This HMSS will benefit the participants' nuclear knowledge and skills as well as their competitiveness for career opportunities in the nuclear domain.

ENEN PLUS approved mobility grants

The HMSS organizer has requested for the eligible selected participants financial support (in the form of mobility grants) from the ENEN PLUS project that (partially) covers travel, accommodation and access fee for this HMSS. 6 mobility grants were granted by the ENEN PLUS Management Committee.

The ENEN PLUS mobility grant per participant includes:

- 500 EUR for cross-border travel,
- 700 EUR for lodging for cross-border participants of the summer school,
- 800 EUR for access fee.

The requested ENEN PLUS mobility fund for the Heavy Metal Summer School for 6 applicants was approved by the ENEN PLUS Management Committee on January 29, 2020.

Selection procedure

Participants can register from January 10, 2020 and must complete their registration (see Registration procedure) before May 5, 2020. The maximum number of grants is 6. The evaluation of each applicant is based on the criteria below.

Evaluation criteria

All applicants are handled equally regardless of nationality, ethnicity, gender, language, religion etc.

1. Eligible applicants for financial support provided by the ENEN PLUS project are, in correspondence with the ENEN PLUS Mobility Rules¹, persons performing a transnational mobility action:
 - Citizens of any EU member country willing to travel abroad (to another EU country or anywhere else)
 - Citizens of countries, which are not members of EU, pursuing studies in an EU member country and having an already established relation with the receiving institution.
2. Suitability of background education: participants are advised to have obtained their Master degree in physics or engineering;
3. Suitability of summer school contents for university course portfolio of a student or skills portfolio of a young professional; this summer school is aimed at PhD students, post-docs and professionals with a particular interest in the domain of HLM technologies;
4. Only complete registration (online registration and submission of requested documents (see Registration procedure)) before May 5, 2020 will be taken into consideration.
5. Command of the English language.
6. Only full-time participants are accepted.

Participants which do not come into consideration to receive the ENEN PLUS mobility fund (in case the participant does not meet all criteria (e.g. Belgian participants)) or participants which registered later than the application deadline to be evaluated by the Steering Committee, will still be allowed by the Summer School organizer to participate in the HMSS. These participants can register until May 24, 2020 for participation through the regular registration full paying procedure (without ENEN PLUS support).

The HMSS organizer keeps the right to cancel the event at any time.

Evaluation procedure

Each submitted application will be, within two weeks, evaluated by minimum three members of the Steering Committee. The outcome of the evaluation will be communicated to the candidate, two weeks (max. three weeks) after the submission date of this candidate.

Members of Steering Committee

The Steering Committee of the HMSS is assembled in order to evaluate the participants according to the predefined participants evaluation criteria.

- Michele Coeck, Head of the SCK•CEN Academy for Nuclear Science and Technology
- Paul Schuurmans, Scientific Responsible
- Katrien Van Tichelen, Scientific Collaborator
- Hamid Ait Abderrahim, Deputy Director-General & Director-General of the MYRRHA project

¹ Mobility manual, ENEN PLUS PROJECT, Grant Agreement Number 755576 (<https://plus.enen.eu/grants/>)

Registration procedure

The registration for the HMSS will be open as from publication on the SCK•CEN Academy website until:

- **May 5, 2020** for participants applying for the ENEN PLUS mobility grant
- May 24, 2020 for all other participants.

Registration for the Heavy Metal Summer School includes:

- Online registration **via the SCK•CEN Academy website** ([Link](#)). The personal data are kept confidential, handled only by the Steering Committee and used only for the purpose of selection.
- Upon complete registration for the ENEN PLUS mobility grant, applicants in addition must **send the four documents** listed below to academy@sckcen.be
 1. Document including specific information related to the Heavy Metal Summer School
 - General information (Name, affiliation, ENEN PLUS nuclear field, grant, IBAN bank details),
 - Latest degree (level and field; e.g., MSc in Nuclear Engineering),
 - Current work description,
 - Supervising professor/Direct manager,
 - Earlier studies related with the Summer School contents.
 2. Motivation letter for participating in the Summer School (max 300 words);
 3. Recommendation letter from the supervising professor/Direct manager (max 300 words);
 4. Abstract for a poster presentation on your research project.

The Summer School organizer (SCK•CEN Academy) will report on the funding approved (name, affiliation, ENEN PLUS nuclear field, grant, IBAN bank details) to the ENEN PLUS Management Committee.

Obligations to participants

- Funded participants are obliged to submit, via email (secretariat@enen.eu), a written report to the ENEN PLUS Management Committee not later than 30 days after completion of the mobility action, i.e., before July 19, 2020. Failure to submit the report will require the applicant to return the lump sum.
- All publications resulting from the mobility actions must acknowledge the ENEN PLUS mobility grant ('This work has been partially supported by the ENEN PLUS project that has received funding from the Euratom research and training Work Programme 2016 – 2017 – 1 #755576').
- At the end of the HMSS, participants will be requested to fill out a feedback form. In this form questions regarding the objectives of the ENEN plus project will be included.