



Focal Theme:

"Cutting-edge Neutron and X-ray Research for a Sustainable Future"

August 20 - 27, 2023
Lüneburg, Germany
rac-school.org

About the RÅC International Summer School

The RÅC International Summer School is a joint initiative by Sweden and Germany within the collaborative framework of the Röntgen-Ångström-Cluster (RÅC). The school's venue will rotate annually among the partner countries.

With the existing and upcoming top research facilities, the European X-ray Free-electron Laser (European XFEL) near Hamburg, the European Spallation Source ESS and the MAX IV Laboratory in Lund as well as PETRA III, the future PETRA IV synchrotron radiation facility and the soft X-ray FEL FLASH at DESY in Hamburg, and the BESSY II Light Source at the Helmholtz-Zentrum Berlin, the Baltic region is significantly strengthening its analytical research capabilities over the next decade for users from all over the world. Added to this is the close cooperation with ILL and ESRF in Grenoble.

A key target of the RÅC platform is the training of the next generation of researchers in order to contribute to making the best use of these most-advanced research infrastructures.

The RÅC International Summer School 2023 offers a unique training for the next generation of researchers in materials and life science, who utilize neutrons and X-rays. The **general theme** of the RÅC Summer Schools is "*Advanced Materials Design at X-ray and Neutron Facilities*". Additionally, each annual Summer School takes place under a specific **focal theme** on relevant topics of high importance, like this year's focal theme:

"Cutting-edge Neutron and X-ray Research for a Sustainable Future"

The RÅC 2023 International Summer School addresses master (diploma) students in their final study year, doctoral and PhD candidates, and young postdoctoral researchers, all predominantly from universities and research institutions of the partner countries. It is one of the main goals of RÅC-2023 to strengthen a broad scientific knowledge base of the next generation of researchers in advanced materials research and to contribute to the necessary interdisciplinary literacy in relevant scientific fields and disciplines. The program structure, the topics and lectures are designed to improve a fundamental understanding rather than just focus on plain experimental methods and techniques. In addition, the summer school emphasizes a stimulating study environment with sufficient time for social and cultural activities among the participants. Internationally renowned scientists and experts from the relevant fields will be invited as lecturers and tutors. Poster Sessions and a Science Slam are part of each Summer School. At the end of each lecture day, the students are offered Tutorials, where they can meet and discuss with each lecturer of the day separately in a relaxed atmosphere. These program parts stimulate the interaction and a close dialogue between the generations. Also, students will have the opportunity to make their own contributions to the school. There will be sufficient time for mutual exchange.

RÅC International Summer School 2023

Call for Application for Participants from German Institutions

"Cutting-edge Neutron and X-ray Research for a Sustainable Future"

Date: August 20-27, 2023
Venue: Bergström Hotel, Lüneburg, Germany
Web: <https://www.rac-school.org/>

The RÅC International Summer School 2023 offers up to **25 full scholarships** (travel, lodging, full board) for senior master students, doctoral and PhD candidates, and young postdoctoral researchers, who are residents of Germany and work or study at German research institutions or German universities.

Invited for application are:

- qualified senior master students in the final research phase of their study programs (master/diploma)
- doctoral and PhD students
- young postdoctoral researchers

All applications will be evaluated by a committee, together with the "Komitee Forschung mit Neutronen" (KFN) and the "Komitee Forschung mit Synchrotronstrahlung" (KFS). The nomination of applicants will be based on their academic accomplishments, experience in research and education, as well as taking gender balance into account.

Applications have to include:

- a CV
- a one-page motivation letter explaining why she/he
 - would like to participate
 - how this might benefit his/her ongoing or planned career
- 1 brief recent reference letter

Deadline for application: April 30, 2023

- early application is highly recommended
- submission via the **RÅC-2023 Application Form:** (indico.desy.de/e/rac-2023)

RÅC-2023 Organizers:

RÅC International Summer School is organized by Deutsches Elektronen-Synchrotron (DESY) and the Swedish Research Council Vetenskapsrådet. The school is embedded in the scientific cooperation framework of the Röntgen-Ångström-Cluster (RÅC). In Germany, the RÅC International Summer School 2023 is supported by the Federal Ministry of Education and Research (BMBF).

Privacy Notice:

Please, be aware: When applying for a RÅC-School Scholarship at the RAC-School Secretariat, you agree that your personal data and documents that you provide to the RÅC-School Secretariat and Scientific Committee will be stored and processed for the purpose of participating in the RAC-School application procedure. Your personal data and documents will be stored and processed during the application procedure and - due to legal requirements - up to two months after the completion of the application procedure. Link to DESY Data Privacy Policy, see: https://www.desy.de/data_privacy_policy/index_eng.html