



Focal Theme:
*“X-ray and neutron research
on bio-inspired materials and
sustainable energy
technology”*
**September, 01-08, 2024
near Kraków, Poland**
rac-school.org

About the RAC International Summer School

The RAC International Summer School is a joint initiative by Sweden and Germany within the collaborative framework of the Röntgen-Ångström-Cluster (RAC), now in cooperation with the Institute of Nuclear Physics (IFJ PAN) in Poland. The school's venue rotates annually among the partner countries. This year, the Summer School will be organized together with our Polish partners at a site close to Kraków.

With the existing and upcoming top research facilities, (such as the European XFEL or PETRA III and PETRA IV in Germany, the European Spallation Source ESS and the MAX IV Laboratory in Sweden, and the Solaris Synchrotron in Poland) the European countries and in particular the countries in the Baltic sea region will significantly strengthen its analytical research capabilities over the next decade. The RAC International Summer schools will help to attract more young researchers to make use of these large-scale facilities.

A key target of the RAC 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 RAC International Summer School 2024 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 RAC 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:

„X-ray and neutron research on bio-inspired materials and sustainable energy technology”

One main goal of RAC-2024 is to strengthen the scientific knowledge base of young researchers in advanced materials research. The program structure, the topics and lectures are designed to improve a fundamental understanding rather than focusing on pure experimental methods and techniques. The Summer School emphasizes a stimulating learning environment with sufficient time for social and cultural activities.

Internationally renowned experts in the relevant fields will give lectures and tutorials. Poster sessions and student lectures are part of each Summer School. Close interaction and dialogue among participants and lecturers will be stimulated.

RAC International Summer School 2024

Call for Application for Participants from European Institutions

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

Date: September 01-08, 2024
Venue: Near Kraków, Poland
Web: <https://www.rac-school.org/>

The RAC International Summer School 2024 offers up to **10 full scholarships** (travel, lodging, full board) for students and young scientists, who are residents in Europe and work or study at European research institutions or European 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
- a brief and targeted reference letter

Deadline for application: **May 10, 2024**

- early application is highly recommended
- submission online via the **RAC-2024 Application Form**

RAC-2024 Organizers:

The RAC International Summer School 2024 is organized by Deutsches Elektronen-Synchrotron (DESY) and the Institute of Nuclear Physics of the Polish Academy of Sciences (IFJ PAN). In Germany, the RAC-2024 is supported by the Federal Ministry of Education and Research (BMBWF).

Privacy Notice:

Please, be aware: When applying for a RAC-School Scholarship at the RAC-School Secretariat, you agree that your personal data and documents that you provide to the RAC-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