



The RÅC International Summer School 2024 is a joint initiative of Sweden and Germany within the Röntgen-Ångström-Cluster (RÅC) in cooperation with The H. Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN) in Poland. The location of the school changes every year between partner countries. This year, the RÅC Summer School will be organized by IFJ PAN together with partners in a town near Krakow.

Thanks to existing and emerging leading research facilities (such as European XFEL or PETRA III and the upgrade project PETRA IV in Germany, European Spallation Source ESS and MAX IV Laboratory in Sweden, SOLARIS Synchrotron and MARIA reactor in Poland), European countries, and in particular the countries of the Baltic Sea region, in the next decades will significantly strengthen their analytical research capabilities. The RÅC international summer school is a place where young researchers will gain a theoretical basis for using these large facilities.

A key goal of the RÅC platform is to train the next generation of researchers to contribute to the best use of the most advanced research infrastructures.

The RÅC International Summer School 2024 offers unique training for the next generation of materials and life sciences researchers who use neutrons and X-rays. The overall theme of the RÅC Summer Schools is "**Advanced Materials Design at X-ray and Neutron Facilities**". Additionally, each annual Summer School is held under a specific core theme on relevant topics of high impact, such as this year's theme: "**X-ray and Neutron Research on Bio-Inspired Materials and Sustainable Energy Technology**".

One of the main goals of the RÅC Summer School 2024 is to strengthen the foundations of scientific knowledge of young researchers in the field of research on advanced materials. The program structure, topics and lectures are designed to improve the fundamental understanding of the physics surrounding X-ray and neutron research and, in addition, the experimental aspects of these techniques. The Summer School emphasizes a stimulating learning environment with ample time for social and cultural activities.



**The Henryk Niewodniczański  
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Lectures and instructions will be delivered by world-famous experts in these fields. Poster sessions and student lectures are part of every Summer School. Interaction and dialogue between participants and lecturers will be developed.

**Submission of applications for Polish participants of the School**

**"X-ray and Neutron Research on Bio-Inspired Materials and Sustainable Energy  
Technology"**

Time: **September 1-08, 2024**

Place: **near Krakow**

Web: <https://www.rac-school.org/>

The RAC 2024 International Summer School offers up to 15 full scholarships for students and young scientists (reimbursement of travel expenses, accommodation and meals, participation in organized events) who live in Poland and work or study in Polish research institutions or Polish universities.

**The School program is directed to:**

- Master's students in the final research phase of their study programs,
- doctoral students,
- young researchers with a Ph.D

The nomination of candidates by the Program Committee will be based on their academic achievements, research and education experience, and will take into account gender balance.

**Required documents:**

- CV
- A cover letter explaining the reasons for the candidate's willingness to participate in the School and the impact of participation in the School on further scientific development
- Recommendation letter from the head of the research group

**Deadline** for submitting applications to e-mail [SzkolaLetniaRAC@ifj.edu.pl](mailto:SzkolaLetniaRAC@ifj.edu.pl): **May 10, 2024**