



Structure, Real-time Dynamics and Processes in Complex Systems

RACIRI 2019 SUMMER SCHOOL
4 – 11. August 2019
Svetlogorsk (Kaliningrad area), Russia
<http://www.raciri.org>

Call for Applications

RACIRI Summer Schools

Germany, Russia and Sweden have jointly launched the RACIRI Summer Schools initiative in 2013 that is based on two bilateral cooperation platforms, the German-Swedish Röntgen-Ångström Cluster RAC (<http://www.rontgen-angstrom.eu>) and the German-Russian Ioffe-Röntgen Institute IRI (www.ioffe-roentgen.org).

With the upcoming and existing top facilities, European X-ray Free Electron Laser (European XFEL) in Hamburg, the European Spallation Source ESS, the MAX IV Laboratory in Lund, the existing PETRA III and the future PETRA IV synchrotron-radiation facility at DESY as well as the high-flux research reactor PIK in Gatchina near St. Petersburg, the Baltic region will significantly strengthen its analytical research capabilities over the next decade that will also be accessible to users from other nations.

A key target of both platforms, RAC and IRI, is the training of the next generation of researchers in order to contribute to the best possible exploitation of this unique research infrastructure.

RACIRI Summer Schools offer a unique training for young researchers in materials and life science, who utilize neutrons and X-rays. Their **general theme** is ***“Advanced Materials Design at X-ray and Neutron Facilities”***. Each RACIRI Summer School chooses its own specific **focal theme**:

- RACIRI 2013, in Petergof (near St. Petersburg), Russia: *Soft Matter and Nano Composites*
- RACIRI 2014, in Stockholm, Sweden: *Imaging with X-rays and Neutrons in Life and Materials Sciences*

- RACIRI 2015, on Rügen Island, Germany: *Time-resolved and In-situ Studies of Materials: Basics and Applications*
- RACIRI 2016, in Repino (near St. Petersburg), Russia: *Convergent Science and Technology for Society*
- RACIRI 2017, in Ronneby and Lund, Sweden: *Grand Challenges and Opportunities with the Best X-ray and Neutron Sources*
- RACIRI 2018, on Rügen Island, Germany: *From Basic Science and Applications to Technologies inspired by Nature*
- RACIRI 2019, Svetlogorsk (Kaliningrad area), Russia: *Structure, Real-time Dynamics and Processes in Complex Systems*

RACIRI Summer Schools address mainly PhD students, master (diploma) students in their final research year, and young postdoctoral researchers from institutions predominantly of the three partner countries.

It is one of the main goals of RACIRI Summer Schools to strengthen the 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 addressed topics and the lectures are designed to improve a fundamental understanding rather than just focus on plain experimental methods and techniques. In addition, structure and program of the summer schools emphasize a stimulating learning environment with sufficient time for social & cultural activities among the students. 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 RACIRI 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 should stimulate the interaction and a close dialogue between the generations.

Participation and how to apply

In general, admittance to the RACIRI Summer School is based on national calls in the partner countries Sweden, Russia and Germany and granted through a nomination process based on scientific excellence. Each country will organize the calls and the nomination process autonomously and may engage for that purpose national research organizations to rely on their experiences, networks and best practice mechanisms in advertising the RACIRI Summer School and in nominating young researchers. Due to special support from Federal Agency for the Commonwealth of Independent States Affairs, Compatriots Living Abroad, and International Humanitarian Cooperation (<http://rs.gov.ru/en>) RACIRI Organizing Committee can invite up to 15 young researchers from third countries - preferably from the Baltic countries and the CIS countries.

The nominated young researchers will receive all necessary funding for accommodation and food.

RACIRI 2019 Summer School: 4. – 11.08.2019

Call for Application for Participants from Russian Institutions



The focus theme of the RACIRI 2019 Summer School is “*Structure, Real-time Dynamics and Processes in Complex Systems*” (<http://www.raciri.org/>). Its venue is the Hotel “Volna” in Svetlogorsk (Kaliningrad area), Russia (<https://hotelvolna.ru/>).

The RACIRI 2019 Summer School offers up to **30 full scholarships** (food and lodging) for students and young scientists working at Russian research institutions or universities and who are residents of Russian Federation. The travel expenses for selected students should be covered by the applicant's employer.

We expect the applicants to be excellently qualified senior undergraduate students during the final phase of their study programme (master/diploma), or graduate students (PhD students) with proven academic background and necessary qualifications, or young scientists (Postdocs). Students and young scientists wishing to participate must first apply and will be nominated by a selection committee (based on their academic accomplishment, research and education experience).

The selection will be organized by the NRC “Kurchatov Institute”. Successful applicants will receive an invitation to attend the RACIRI Summer School 2019.

Announcement for the Russian participants (in Russian) is available at link: <http://www.nrcki.ru/raciri2019.shtml>.

Applicants are requested to electronically submit

- a CV (should be in English and contain the first, last and middle names in Russian, first and last names in English exactly as in passport, citizenship, employer or university (for student), position, date of birth, mail address, email address and telephone number, as well as a list of the most important publications of the applicant).
- a one-page motivation letter explaining why he/she would like to participate and how this might benefit his/her ongoing or planned research (should be in English)
- one reference letter (should be in English or in Russian)
- an official letter from the applicant's employer (should be in English or in Russian).

All documents should be submitted by **15 April 2019** via online service at link: <https://reg.nrcki.ru/raciri2019/>

Please be advised to submit your application as soon as possible.

You can ask any questions to the local organizing committee by email raciri@nrcki.ru

Organizers:

The RACIRI Summer School is embedded in the scientific cooperation frameworks of the Röntgen-Ångström-Cluster (RAC) and the Ioffe-Röntgen-Institute (IRI). Organizing institutes are the Deutsches Elektronen-Synchrotron (DESY) in Germany, the NRC “Kurchatov Institute” in Russia and the Swedish Research Council Vetenskapsrådet.

