



Structure, Real-time Dynamics and Processes in Complex Systems

RACIRI 2019 SUMMER SCHOOL
4th – 11th August 2019
Svetlogorsk (Kaliningrad region), 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 for users from other countries.

The key objective of the 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 the field of materials and life science where neutrons and X-rays are used. The **general** topic of the schools 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.

One of the main goals of RACIRI Summer Schools is to strengthen the scientific knowledge base of the next generation of researchers in advanced materials studies 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 focusing on plain experimental methods and techniques. In addition, structure and program of the summer schools emphasize a stimulating learning environment with the 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 a part of each RACIRI Summer School. At the end of each lecture day, the students are offered Tutorials, where they can meet and take a part in the discussion 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, admission to the RACIRI Summer School is based on the 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 national research organizations by using their experiences for that purpose, networks and the best practice mechanisms in advertising the RACIRI Summer School and in nominating young researchers. With the 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 the Baltic countries (Denmark, Poland, Latvia, Lithuania, Estonia and Finland) and the CIS countries (Azerbaijan, Armenia, Belarus, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Uzbekistan, Ukraine and Turkmenistan).

Living costs (i.e. accommodation and food) and transportation will be covered for nominated young researchers.

RACIRI 2019 Summer School: 4. – 11.08.2019



Call for Application for Participants from third Country 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 due to the special support from the Federal Agency for the Commonwealth of Independent States Affairs, Compatriots Living Abroad, and International Humanitarian Cooperation (<http://rs.gov.ru/en>) can offers up to **15 full scholarships** (travel, food and lodging) for students and young scientists working at Baltic countries and the CIS countries (excluding Russia, Germany and Sweden) research institutions or universities.

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 for the RACIRI School and then they 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 applicants is available at the link: <https://svetlogorsk2019.nrcki.ru/>

Young researchers aged between 25 to 35 from the Baltic countries and the CIS countries (excluding Russia, Germany and Sweden) with an interest in RACIRI Summer School 2019 are kindly invited to submit their application which should include:

- a CV (should be in English and contain the first, last and middle names (if applicable) exactly as in passport, citizenship, employer or university), 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 with the recommendation from the supervisor (should be in English or in Russian)
- an official letter from the applicant's employer (should be in English or in Russian)
- Application form for participation in the program «New generation»
- Abstract of the presentation (should be done according to the template).

All documents should be submitted by **31th of May 2019** via online service at the link: <https://svetlogorsk2019.nrcki.ru/>

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 Swedish Research Council Vetenskapsrådet, the NRC “Kurchatov Institute” and Immanuel Kant Baltic Federal University in Russia.

