Course description:
This practical course addresses the principles and applications of small angle X-ray and neutron scattering (SAXS/SANS) for biological macromolecules. The course is mainly intended for PhD students and postdoctoral researchers who are using or will be using SAXS/SANS for biological macromolecules in their research work. Use of SAXS/SANS for membrane proteins will also be discussed. The course constitutes lectures as well as hands-on experience for analyzing the SAXS/SANS data. The course is organized with the support of the Health and Biosciences Doctoral Program (HBS-DP) of the University of Oulu.

There is a possibility for the selected participants to send a protein sample to DLS directly for SAXS data collection. The beamline scientists will collect SAXS data at the beamline B21 prior to the course (on Oct 19-20, 2021).

The course will be organized as a hybrid event where online as well as on-site participation is possible. For online participation, a computer/laptop is needed. Further details of optimal computer requirements and software that should be installed will be communicated prior to the course. For on-site participation, lecture hall F101A (for lectures) and computer classroom F132 (for hands-on training) at FBMM premises will be used.

Practical sessions are limited to registered participants while lectures are open to a wider audience.

Apply online here! before 20th Sep 2021. There is no registration fee for the course.

Confirmed teachers: Dr. Nathan Cowieson, Diamond Light Source, UK
Dr. Robert Rambo, Diamond Light Source, UK
Prof. Jan Skov Pedersen, Aarhus University, Denmark
Dr. Anne Martel, Institut Laue-Langevin, France
Dr. Nicolai Tidemand Johansen, University of Copenhagen, Denmark

Credits: 1.0 ECTS
Registration: Online registration here! Deadline Sep 20, 2021
The course is limited to 20 participants

Contact Persons: Rajaram Venkatesan & Pia Askonen (firstname.lastname@oulu.fi)
Organizer: Rajaram Venkatesan, Faculty of Biochemistry and Molecular Medicine, University of Oulu
Course program: Will be updated here!