MOSBRI
Molecular-Scale Biophysics Research Infrastructure

# End User Short Course

## Single Molecule Approaches

6th-8th November 2023
Moleculaire Biofysica, Zernike Instituut, Rijksuniversiteit Groningen, Groningen, The Netherlands (RUG-BP)

The course focuses on single-molecule and single-particle approaches, which are approaches that are nowadays common in biophysics labs. With these approaches one can study molecules and particles at the single entity level, as opposed to bulk methods in which ensemble averaging occurs over large quantities of particles. In particular the focus will be on STED super-resolution microscopy, optical tweezers and atomic force microscopy.

During the course the participants will learn about the fundamental background and operational procedures of the techniques and hands-on practice with the instruments will be performed. Attention will be given to sample preparation, set-up operation, data gathering and data analysis.

As the techniques are quite labour intensive to learn, the applicants will, after an introduction on the three techniques, focus on one of the three techniques to work with during the three days. Short excursions to the other techniques will be organised.

*Other details:*
Registration to the course is required. Participants will receive partial financial support to attend the course, including economy travel, lunches and 2 nights of accommodation with breakfast (accommodation will be booked by the organisers). Successful applicants will be informed of the eligible expenses when they receive a formal acceptance letter.

Visit the website to find out more and to apply to take part in the course.

https://www.mosbri.eu/training/end-user-short-courses/esc7/



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101004806