

International Helmholtz Research School of Biophysics and Soft Matter (IHRS BioSoft)

The International Helmholtz Research School of Biophysics and Soft Matter (IHRS BioSoft) at **Forschungszentrum Jülich, Heinrich-Heine-Universität Düsseldorf, Universität zu Köln, RWTH Aachen University, and caesar Bonn** provides an in-depth training at the interfaces of Physics, Chemistry, Biology, and Neuroscience. A comprehensive framework of **experimental and theoretical tools** enables PhD students to gain deeper understanding into the structure, dynamics, and function of complex systems. The three-year PhD programme reflects the increasing importance of interdisciplinary knowledge in research and provides **comprehensive training in scientific and transferrable skills**. Projects for the PhD thesis can be selected from the following research areas and techniques:

- Complex Fluids
- Colloid and Polymer Physics
- Dynamics of Macromolecules
- Structural Biochemistry
- Artificial and Biological Membranes
- Biomechanics
- Cellular Biophysics
- Bioelectronics
- Cellular Signaling Pathways
- Receptor-Ligand Interactions
- Neurobiology
- and many more
- Optical Spectroscopy and Imaging
- Statistical Physics
- Computer Simulations
- NMR, Electron Cryo-Microscopy
- Light-, Neutron-, X-ray Scattering
- Rheology
- Single-Molecule Techniques
- Superresolution Microscopy
- Cell-Chip Coupling
- Patch-Clamp Analysis
- Quantitative Image Analysis
- and many more

The Research School is open to highly qualified and motivated applicants from all countries. Applicants should hold a Master's or other degree comparable to a German master's degree in biological, chemical or physical sciences. The teaching language is English; sufficient command of the language is required for acceptance.

The Research School is committed to an equal opportunity policy. We therefore welcome and encourage applications of qualified women and disabled candidates. To apply, please use the application form: www.ihrs-biosoft.de/admission. If you have questions, you can contact us by email (admission_biosoft@fz-juelich.de) or phone (+49 2461 61 1735).

Further information: www.ihrs-biosoft.de