

PhD Studies at the

# International Helmholtz Research School of Biophysics and Soft Matter

**Soft Matter:** Complex Fluids • Colloid and Polymer Physics • Dynamics of Macromolecules • Supramolecular and Amphiphilic Self-Assembly • Flow Dynamics and Microfluidics • Membrane Physics • Non-Equilibrium Behaviour and External Fields

**Biophysics:** Biomechanics • Bioelectronics • Structural Biology • Biological Membranes • Receptor-Ligand Interactions • Cellular Signalling Pathways • Neurobiology • Cell-Transistor Coupling • Biosensors

**Methods:** Optical Spectroscopy and Imaging • Light, Neutron and X-ray Scattering • Rheology • NMR • Statistical Physics and Computer Simulations • Fluorescence Microscopy • Single-Molecule Techniques • Quantitative Image Analysis • and many more

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