Job responsibilities:

• Synthesis of supramolecular systems as enzyme analogues

- Embedding the produced cages in polymer single-molecule nanoparticles
- Study of catalytic processes in single-chain nanoparticles
- In-depth analysis using spectroscopic methods
- Extension of catalysis to chain-forming/chain-breaking processes
- The opportunity to pursue a doctorate is available

Requirements:

- Completed master's degree in chemistry or polymer material science
- Profound knowledge of polymer chemistry/polymer synthesis (chain growth polymerisations), single chain nanoparticles
- Master's thesis relevant to the field of polymer science/polymer synthesis

• Analytical knowledge of MS of polymers (MALDI/ESI-TOF)

• Proven knowledge of SEC/shape analysis of macromolecules

• Excellent English skills (spoken and written)

• Very good communication skills, ability to work in a team, problem-solving orientation and ability to work independently

• Many continuing education opportunities and workshops on topics related to science and professional skills.