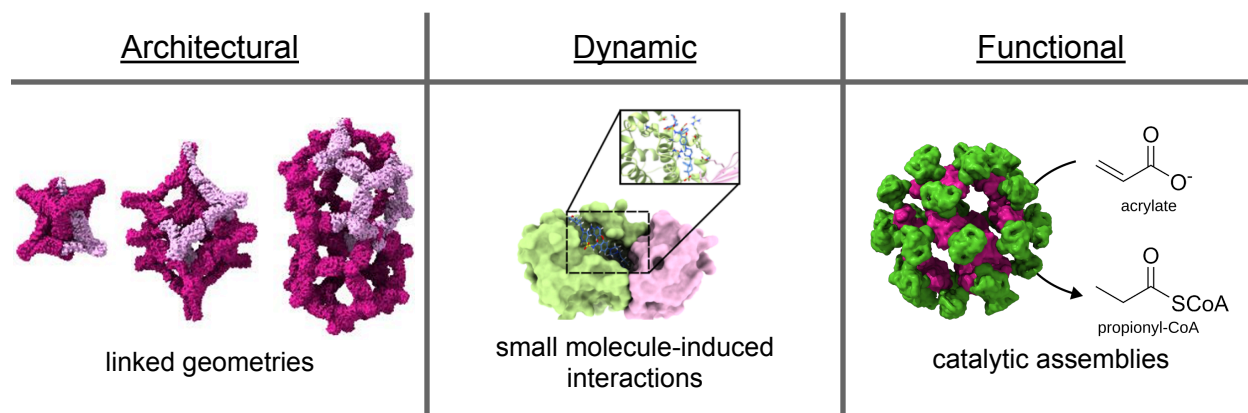




Opportunities for Master's and Bachelor's Theses on computational design of self-assembling protein materials

The group of **Protein Design and Self-Assembly** at the Department of Chemistry, Ludwig Maximilian University (LMU) of Munich is offering Master's Thesis projects to expand the current repertoire of self-assembling protein systems.

Polyhedral protein assemblies, aka protein nanoparticles, are modular biomaterials that have three distinct genetically defined surfaces available for functionalization: interiors, to compartmentalize molecules; exteriors, to interact with their surroundings; and inter-subunit surfaces, to determine the assembly. The goal of the Khmelinskaia lab is to expand the repertoire of protein assemblies available to interface with biological systems, in terms of the following properties:



Your project will aim to achieve application-dependent “off-the-shelf” programmability of protein assemblies.

If you are **enthusiastic about research** in a collaborative environment, have a strong interest in **solving fundamental biophysical problems**, or **explore advanced molecular design approaches**, and have experience in molecular biology, chemistry, or biophysics, please contact Alena Khmelinskaia via email (akhmelin@cup.lmu.de) with your CV. Computational experience is beneficial but not a must. The group's working language is English.

We welcome people from all backgrounds to join our lab!