The Max Planck Institute of Biophysics is a leading international research institute that uses biophysical, biochemical and computational methods to investigate the structure, dynamics and function of cellular systems at the molecular scale. It consists of four scientific departments, multiple research groups and scientific core facilities, with about 200 employees from more than 25 countries.

**Master Project: Mechanisms of Cellular Proteostasis**  
*Department of Molecular Sociology, Max-Planck Institute for Biophysics*

As the nascent polypeptide chains emerge from the ribosome, they become exposed to the crowded cellular interior. Subsequently, those non-native interactions could trigger the misfolding of proteins and hence their aggregation or decay. Therefore, cells evolved chaperones which can engage with nascent polypeptide chains and shield them from non-native protein interactors leading to accurate protein maturation and folding.

In the Master project, you will characterize a novel subset of chaperones and address their contribution to the cellular proteostasis system in *Saccharomyces cerevisiae*.

**We are seeking for a student:**
- with solid and fundamental skills in molecular biology e.g. standard cloning techniques and protein detection methods
- with previous experiences in protein purification
- who is highly motivated to learn or advance in mass spectrometry and fluorescence imaging
- and who is eager to work in a collaborative working environment.

**Duration:** 6 months

Applicants should provide a CV including a list of previous project and skills obtained throughout those projects and a recommendation letter. Applications should be sent to martin.beck@biophys.mpg.de.