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. It is located at the Campus Riedberg in Frankfurt am Main.

The Image Processing group in the Department of Molecular Sociology aim to facilitate in situ structural analysis by developing novel algorithms for cryo electron tomography and subtomogram averaging. Our method development focuses on integrating contextual information provided either directly within the tomogram or by other sources (molecular dynamics, mass spectrometry) into subtomogram averaging routines (for examples, see our latest work on in situ structural analysis of Sars-CoV-2; DOI: 10.1126/science.abd5223).

We seek to recruit

PhD Candidate (f/m/d)

in image processing

Applicants should hold a Master degree in computer science, visual computing, applied mathematics, physics, or biophysics. The ideal candidates will have experience in one or more of the following subject areas:

- image processing
- computer graphics (especially geometry/topology)
- applied mathematics
- strong programming skills in some object-oriented language (C++, Python)

How to apply

Applications should contain a short motivation explaining your interest in and fit to the position, a CV including contact information for at least one reference and transcript of records.

Please send applications to Beata.Turonova@biophys.mpg.de by September 30, 2021. Applications received after September 30 will be considered in the case the position will not be filled by then.

For more detail, please contact Beata Turonova and refer to these websites:

https://www.biophys.mpg.de/molecular-sociology

https://www.biophys.mpg.de/molecular-sociology/image_processing