The lab of “Structure and Dynamics of Chromosomes” led by Eugene Kim at the Max Planck Institute of Biophysics, together with the laboratories of Martin Beck and Christian Haering at the University of Würzburg, is seeking a highly motivated

**Postdoctoral researcher**

to investigate motor activities of SMC (structural maintenance of chromosome) complexes (Kim et. al. Nature 2020) and the associated protein conformations (Lee, Merkel et. al. NSMB 2020) by using (correlative) electron and light microscopy techniques. The candidate will purify DNA and protein samples, study the dynamics of protein/DNA interactions via single molecule TIRF imaging, and obtain high-resolution information of the reaction intermediates via (cryo-) electron tomography technique. The candidate will join a dynamic, enthusiastic and international team of biophysicists and biochemists ready to tackle exciting problems related to genome organization in a collaborative fashion.

**Qualification profile**

We are seeking for

- An outstanding experimentalist with a PhD degree in biochemistry, molecular biology, biophysics, biomedical engineering, or a related field of science.
- Hands-on experience in cryo-EM, cryo-ET, and/or fluorescence microscopy.
- Hands-on experience with molecular biology and biochemistry techniques such as molecular cloning, protein expression and/or purification.
- Extensive knowledge and strong interest in the field of chromatin biology are a plus.
- A creative and hardworking individual that has a strong interest in interdisciplinary research fields.
- Proficiency in English (both speaking and writing).

**Our offer:**

The Max Planck Institute of Biophysics is an internationally leading research institution in the fields of structural biology, biophysics and cell biology located at the center of the Frankfurt science campus. We are offering excellent working conditions, state-of-the-art infrastructure and an international research environment. The salary is in accordance to the Public Sector Collective Agreement Bund (TVöD, E14). To apply, please send a cover letter (one page maximum), a curriculum vitae, and the contact details of 2-3 references to Eugene.Kim@biophys.mpg.de until 31.03.2021. Do you have any further questions regarding this position? Please contact Eugene.Kim@biophys.mpg.de.