The Max Planck Institute for Biophysical Chemistry is one of the largest institutes of the Max Planck Society for the Advancement of Science and conducts basic research to advance knowledge and benefit society. Innovative projects and interdisciplinary cooperation characterize research within the Max Planck Society.

The research group of Structure and Dynamics of Mitochondria (Prof. Dr. Stefan Jakobs) invites applications for a position as

**Postdoc or PhD Student (f/m/d)**

– MINFLUX – advanced super-resolution microscopy –

(Code number 12-20)

A postdoc position is available through our DFG-funded project ‘Göttingen MINFLUX’ for a period of 4 years in the group of Prof. Stefan Jakobs at the University Medical School Göttingen and the Max Planck Institute for Biophysical Chemistry.

We are looking for a highly motivated and curiosity driven physicist/biophysicist/biologist with a strong background in advanced fluorescence microscopy who wants to work in a multidisciplinary team of biologists, physicists and chemists on different aspects of cell biology with cutting-edge super-resolution microscopy.

**About the project:**
MINFLUX super-resolution microscopy is a novel and revolutionary technique that is capable of achieving a spatial resolution down to ~2 nm precision in biological samples. For this project, you will have full access to one of the first commercially available MINFLUX nanoscopes. The aim of this project is to make this technology available to the scientific community in Göttingen and beyond. This initiative is supported by a core group of researchers with different scientific backgrounds, but ample experience in super-resolution microscopy. The MINFLUX instrument will be used to tackle questions in biomolecular chemistry, membrane receptor biology, and mitochondrial ultrastructure as well as questions in neurology. These investigations will be embedded in research into new labelling techniques, 3D options and image data analysis. With this position you will be involved in supporting other projects, but will you will also be able to follow your own research interests.

In addition, we do have an open PhD position for a biologist/biochemist/physicist who wants to apply MINFLUX nanoscopy to an exciting challenge in mitochondrial biology. For details, just contact us.

**Your Profile:**
- Excellent degree in physics (optics), biophysics, biology or a related discipline
- Sound experience with super-resolution technology (preferentially in single molecule localisation microscopy and single molecule tracking)
- Knowledge in image data analysis
- Knowledge and hands-on experience in cell biology and laboratory work
- Independent thinking, structured work organization and a good team spirit are expected

**Additional Information:**
The research at the Max Planck Institute for Biophysical Chemistry in Göttingen/Germany encompasses a wide spectrum of scientific topics and techniques. Ultra-high-resolution microscopy, nanotechnology, nuclear magnetic resonance spectroscopy, mass spectrometry and computer simulation are employed to delve ever-further into the nanocosmos of living cells. The research group Mitochondrial Structure and Dynamics is investigating the mechanisms by which the inner-mitochondrial architecture is determined and maintained. We are using a wide variety of experimental approaches that include molecular and biochemical tools, in particular electron and advanced super-resolution light microscopy, as well as live-cell imaging.
microscopy. Our group offers an outstanding and unique scientific setting with lot of individual freedom and possibilities for individual development as well as a vibrant working environment. The payment and benefits are based on the TVöD guidelines.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Please submit your application including a cover letter (explaining background and motivation), your CV and complete transcripts preferably via e-mail as a single PDF file with the subject “MINFLUX” until August 15, 2020 to 

Jakobs-lab@gwdg.de

Max Planck Institute for Biophysical Chemistry
Research Group “Structure and Dynamics of Mitochondria”
Prof. Dr. Stefan Jakobs
Am Fassberg 11
37077 Göttingen
Germany