

Ries lab

Postdoc for interferometric super-resolution microscopy

The Ries lab is developing super-resolution microscopy methods for structural cell biology. We are looking for a Postdoctoral Researcher with an optics background to establish interferometric 4Pi single-molecule localization microscopy.

About the position/ the research project

The aim of the project is to establish a multi-color interferometric single-molecule microscope with record 3D resolution based on a prototype developed together with leading microscopy groups. You would then assist biologists from the group and external collaborators to employ this microscope to investigate multi-protein assemblies with structural resolution in cells.

Candidates

We are looking for a talented, highly motivated postdoctoral scientist who shares our enthusiasm for pushing the limits of microscopy to enable biological discovery. You should hold a PhD degree in physics or engineering and should have extensive experience with constructing and aligning complex optical setups. Experience with fluorescence microscopy and programming (Labview and Python or Matlab) will be helpful. Training and supervision will be provided throughout the project, but we also expect a high level of drive and independence. Excellent spoken and written English skills are required.

Application

Please send your documents to jonas.ries@maxperutzlabs.ac.at and include a concise description of research experience, a list of published articles and contact details for three references, of which one should be your PhD supervisor.

Interviews will be held on a rolling basis and as soon as a suitable candidate is found, the position will be filled. The position is funded for an initial period of three years, with the possibility of extension.

Contact

For details on the project please contact: Jonas Ries (jonas.ries@maxperutzlabs.ac.at). Further information about the Ries lab at:

- <https://www.maxperutzlabs.ac.at/research/research-groups/ries>
- <https://rieslab.de>

About the Max Perutz Labs

The successful applicant will work in a stimulating scientific environment: [Department for Structural and Computational Biology at the Max Perutz Labs](#), a research institute established by the University of Vienna and the Medical University of Vienna to provide an environment for excellent, internationally recognized research and education in the field of Molecular Biology. Dedicated to a mechanistic understanding of fundamental biomedical processes, scientists at the Max Perutz Labs aim to link breakthroughs in basic research to advances in human health. The Max Perutz Labs are

located at the [Vienna BioCenter](#), one of Europe's hotspots for Life Sciences, and host 45 research groups, involving around 400 scientists and staff from 50 nations.