

Juffmann lab

Postdoctoral position

About the Juffmann lab

Richard Feynman asked physicists to build better microscopes to watch biology at work. Our *Quantum Imaging and Biophysics* group works at the interface of microscopy, quantum physics, and electron optics to develop new imaging techniques that offer increased sensitivity and resolution. We are looking for a **talented postdoc** to help realize **Optical Near-field Electron Microscopy** (ONEM, Marchand et al. Phys. Rev. Applied 16, 014008 (2021)).

About the position

Within an EU-funded project (www.onem.eu), you will collaborate with a team of 2 Ph.D. students and with our partners at the University of Leiden and the Czech Academy of Sciences. You will interface light- and electron optics to realize this novel super-resolution microscopy technique, enabling damage- and label-free studies of interfaces. You will demonstrate ONEM in applications such as plasmonics, electrochemistry, or membrane biology.

We offer

- Fully funded postdoc position, including benefits and international travel.
- Excellent facilities and well-equipped laboratories.
- A cutting-edge research program at the interface of physics, chemistry, and biology that offers opportunities to develop your unique research profile.

Requirements

- Ph.D. or equivalent degree in natural sciences (biophysics, physics, chemistry...)
- Demonstrated research and innovation potential

Preferred Backgrounds

- Optics / Quantum optics / Development of optical microscopes
- Electron microscopy (TEM, LEEM, or liquid cell TEM)
- Expertise in one of the envisioned application areas: Plasmonics, electrochemistry, or membrane biology
- Fields that foster excellence in experimental skills (AMO physics, precision measurement...)

Earliest start date: October 1, 2022

The Quantum Imaging and Biophysics group is affiliated with the Faculty of Physics and the Max Perutz Labs at the University of Vienna. We are located close to the center of Vienna, a city that has repeatedly been selected as the city offering the highest quality of life.

MAX PERUTZ LABS

Vienna BioCenter (VBC) • Dr.-Bohr-Gasse 9 • 1030 Vienna
Tel: +43 1 4277 24001 • office@maxperutzlabs.ac.at
www.maxperutzlabs.ac.at

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The University of Vienna is committed to equality in its workforce and encourages applications from all qualified individuals regardless of gender or other personal backgrounds.

To apply or for more information, please contact thomas.juffmann@univie.ac.at. Please include your CV when applying.

About the Max Perutz Labs

The Max Perutz Labs are 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 around 50 research groups, involving more than 450 scientists and staff from 40 nations.

www.maxperutzlabs.ac.at