



Optical Near-field Electron Microscopy

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)). 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 1st, 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.

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.

