**PostDoc opportunity:** Structural biology of cell migration and viral infection by cryo-EM

The Schur lab has an opening for a PostDoc at the Institute of Science and Technology (IST) Austria. The group’s research focuses on the “in-situ” structural characterization of dynamic events in cell migration and viral infection that involve proteins of the actin cytoskeleton and associated regulators.

These questions are addressed using cutting-edge cryo-electron microscopy (cryo-EM) and cryo-electron tomography (cryo-ET) techniques, correlative imaging methods (e.g. CLEM) and a variety of molecular biology and cell biology tools. In addition, a part of the lab will work on the development of new data acquisition protocols in cryo-ET and image processing methods (subtomogram averaging, see Schur FKM et al, 2016, Science, 353).

The ideal candidate will have a strong interest in learning and developing new techniques in the field of cryo-electron tomography.

Applicants should have a background in cell biology or structural biology. Prior experience in mammalian cell culture methods, live-cell imaging and cryo-electron microscopy is highly valued. Computational knowledge and experience using Linux, Matlab or Python, as well as strong interest in using advanced imaging techniques (light and electron microscopy) is vital.

IST Austria is located in Klosterneuburg on the outskirts of Vienna, the city that continuously is voted to have the highest quality of living worldwide (Mercer 2017). IST Austria is a young and rapidly growing institution that is committed to perform world-class research in the natural and mathematical sciences. At the institute several scientific service units provide excellent know-how and cutting-edge instrumentation to support research, including facilities for electron microscopy, bioimaging, scientific computing, nanofabrication and others. IST Austria is currently in the process of extending its EM-facility to harbour state-of-the-art cryo-EM instrumentation (300 keV TEM, direct electron detector with energy filter, cryo-CLEM and additional cryo-TEM screening instruments).

If you are interested to work in an interdisciplinary environment and to perform science that combines method development and biological application, contact me at florian.schur@ist.ac.at

More information can be found here: [http://ist.ac.at/research/life-sciences/schur-group/](http://ist.ac.at/research/life-sciences/schur-group/)

The application should include:
- A coverletter stating research interests and why you apply for the position
- A CV, including list of publications
- contact information for two referees