

Positions available in the Koster EM lab at the LUMC in Leiden, The Netherlands

Four positions are available immediately at the Koster Electron Microscopy group at the Leiden University Medical Centre (https://electronmicroscopy.lumc.nl/?page_id=844).

- 5-year Tenure-track position for a scientist with a PhD in the fields of biology, chemistry or physics with a keen interest to work on his/her own biological question within the general research profile of the LUMC using a variety of techniques, including advanced light and electron microscopy.
- 2-year Postdoctoral position with a possible extension to 4-years for an electron microscopist with experience in cryo-electron tomography and sub-tomogram averaging working on the structure of antibodies on antigenic surfaces, following our earlier work (Diebolder et al., Science (2014)). The research will cover all aspects of structure determination by cryo-electron tomography including sample preparation, data collection, data processing, including tilt series reconstructions, sub-tomogram averaging and 3D visualization.
- 2-year Postdoctoral position for a scientist with a PhD in the fields of physics, computer science or engineering with a keen interest to develop methods to further improve the quality and throughput of cryo electron microscopy data acquisition and processing by means of automation and integration and interested in contributing to run an international centre for advanced cryo electron microscopy from data acquisition to 3D-EM map interpretation. The position is funded by a EU Horizon 2020 project iNext (<http://www.inext-eu.org/>), and includes close collaborations with other major electron microscopy groups in Europe.
- 2-year Technical Research position to help develop and evaluate methods for cryo electron microscopy sample preparation techniques and with an interest in light and electron microscopy.

The Koster lab uses both light and electron microscopy methods to investigate various cell biological questions. The lab is closely intertwined with the light microscopy facility at the LUMC housed in the same department. Correlative light and electron microscopy (CLEM) is a technical focus area within the laboratory, together with the application and development of advanced cryo EM and traditional resin-embedding techniques to examine macromolecular structures in cells and tissue. The Koster laboratory is also closely linked to the Netherlands Centre for Electron Nanoscopy (NeCEN, <https://www.necen.nl>) where excellent facilities are to one's disposal to investigate questions related to structural biology.

The Koster lab has intense collaborations on a variety of scientific subjects with several research groups within the Faculty of Science at Leiden University and the Medical Faculty (LUMC).

Leiden is a pleasant, historic, liveable town situated in one of the most knowledge-intensive areas of the Netherlands. Leiden is located close to the North Sea coast, and within a 20 minute train ride to Amsterdam, Amsterdam Airport, The Hague, Rotterdam and Utrecht.

Candidates should contact Dr. Bram Koster (a.j.koster@lumc.nl) and include a CV, statement of research interests, and contact information for 2 to 3 references. This call for candidates will close August 1st, 2015.