A PhD position is available for cryo-EM studies of autophagy assemblies at the ERC-3 in the field of Structural Biology of the Forschungszentrum Jülich.

The research will be mainly carried out at the Forschungszentrum Jülich, which is one of the largest research centers in Germany, with excellent scientific equipment and leading European computational resources, located on a green campus, and near the cultural centers Köln, Düsseldorf, and Aachen.

The successful candidate should have a master degree in biochemistry/cell biology, biophysics or related field. The candidate will be working on high-resolution cryo-EM structure determination of purified autophagy complexes and/or in situ imaging of cellular samples using correlative light and electron microscopy approaches. The goal of the ERC-3 institute is to shed light on the structural principles of the essential cellular maintenance mechanism of autophagy.

The Ernst Ruska Centre (ER-C) at the Forschungszentrum Jülich is one of the world-leading electron microscopy centres with a total of 13 electron microscopes including the PICO FEI Titan with a point resolution of 0.5 Å. The facility has been extended with state-of-the-art cryo-microscopes FEI Talos Arctica and FEI Talos 120. The Structural Biology division of the ER-C investigates the structural and molecular mechanism of autophagy and pushes the development of cryo-EM related methodology. The Jülich Supercomputing Centre operates a series of supercomputers including CPU and GPU architectures of highest performance. The Jülich campus hosts a vibrant biophysics and structural biology community.

The candidate will be working in a creative and international environment embedded in an interdisciplinary team with colleagues ranging from electron microscopists, computer scientists, biochemists as well as cellular biologists. The 3-year PhD position is immediately available. Payment of the PhD fellow will be based on salary grade EG 13 (50%) Collective Agreement for the Civil Service (TVöD).

Contact:
Complete applications should include a CV and the name and emails of two references, along with a motivation letter, and have to be submitted to Dr. Carsten Sachse (c.sachse@fz-juelich.de). More detailed information on the scientific interests of the Sachse group can be found on [http://www.fz-juelich.de/er-c/er-c-3](http://www.fz-juelich.de/er-c/er-c-3). The received documents will be screened by an evaluating committee and, based on the expertise and the records of the scientific career; the shortlisted candidates will be invited for an interview, by teleconference if necessary.