



CEITEC

Central European Institute of Technology
BRNO | CZECH REPUBLIC

Structural Biology

PhD position in cryo-electron microscopy of large dsDNA viruses

We are currently offering a PhD position for recent or upcoming graduates (Master of Science in biophysics, biochemistry, biology or similar) who are interested in elucidating structural and functional mechanisms of large macromolecular complexes and viral assemblies. You will use primarily cryo-electron microscopy and tomography to visualize and reconstruct in 3D virions and capsids of large dsDNA viruses to determine their structure, intersubunit interactions and conformational dynamics to understand the mechanisms of the individual steps of their replication cycle. Methods of electron microscopy will be complemented with other techniques of structural and molecular biology.

The cryoEM group is equipped with a unique suite of electron microscopes including a FEI Titan Krios, Tecnai F20 and dual beam FIB/SEM Versa3D. The group is set in vibrant and stimulating environment in the Central European Institute of Technology (CEITEC) in Brno, Czech Republic. The operating language in CEITEC is English and the group is part of the Structural Biology Research Program that includes several international groups with expertise in protein crystallography, biomolecular NMR, CD spectroscopy and computational chemistry (www.ceitec.eu/programs/structural-biology).

The optimal candidate should have experience or strong interest in electron microscopy, image processing and molecular biological techniques, but all candidates are encouraged to apply. If you believe that you fit this description then please send a brief (less than 350 words) letter of motivation, a short CV highlighting your academic and research accomplishments as well as copies of academic certificates to nemecek@ceitec.muni.cz not later than by April 25th, 2014.

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