

Tenure Track Assistant Professor Position in Cryo-EM  
Markey Center for Structural Biology  
Department of Biological Sciences  
Purdue University

The Department of Biological Sciences, Purdue University, is initiating a major effort to expand its investment in cryo-electron microscopy with a new tenure-track assistant professor position in this exciting area of science. The Structural Biology Group at Purdue is recognized worldwide for its leadership in structural biology of viruses, membrane proteins, and technical approaches to crystallographic and electron microscopy challenges. Creative investigators trained in single particle cryo-EM or whole cell electron tomography are sought to enhance these current structural investigations. Areas of research interest include studies of macromolecular complexes, viruses and other pathogens, membrane proteins, signaling in cancer biology, target molecules for structure-based drug discovery and methods development in structural biology by cryo-EM. This position is aligned with other major campus-wide investments in the life sciences including the Center for Drug Discovery (<http://www.purdue.edu/research/pcdd/>), the Center for Integrative Neurosciences (<http://www.purdue.edu/discoverypark/pillars/integrative-neuroscience-center/>), the Institute for Inflammation, Immunology and Infectious Disease (<http://www.purdue.edu/discoverypark/pillars/pi4d/>) and the Purdue Center for Cancer Research (<http://www.cancerresearch.purdue.edu>).

Applicants must have a Ph.D. or equivalent in Biology or an appropriate discipline and at least 2 years of relevant postdoctoral experience. A successful applicant for this position is expected to direct a dynamic and collaborative research program in structural biology using cryo-electron microscopy to address fundamental biological questions, to excel at teaching at the undergraduate and/or graduate level and participate in ongoing programs at Purdue.

Extensive opportunities for collaboration exist across the Purdue campus. Our department alone has over 50 faculty members conducting research in structural biology, neurobiology, virology, microbiology, molecular and cell biology, bioinformatics, evolutionary biology and ecology and biology education (<http://www.bio.purdue.edu/>). These opportunities are enhanced by a highly interactive community of scientists within the Colleges of Science, Agriculture, Pharmacy, Veterinary Medicine and Engineering and existing and emerging interdisciplinary centers in the life sciences. Cutting edge equipment for cryo-electron microscopy is available, including an FEI Titan Krios cryo-EM with K2 direct electron detector and Volta phase plate system in the Hockmeyer Hall Cryo-EM Facility (<http://cryoem.bio.purdue.edu>). We have strong, well-established infrastructure for structural biology in Hockmeyer Hall, including state-of-the-art robotics, as well as advanced imaging analysis and biophysical instrumentation available in modern core facilities at the Bindley Bioscience Center and the Birck Nanotechnology Center in Discovery Park (<http://www.purdue.edu/discoverypark/>), and advanced super-computing resources for data storage, processing and analysis (<http://www.rcac.purdue.edu>).

Applications should be submitted electronically to <https://hiring.science.purdue.edu/> as a single PDF file containing a letter of interest, a detailed curriculum vitae, contact information for three references, a two to three page summary of research interests, and a one-page teaching statement. Purdue University's Department of Biological Sciences is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction and engagement. Candidates should address at least one of these areas in their cover letter, indicating past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. As an ADVANCE institution, Purdue University is dedicated to the recruitment, retention and advancement of women STEM faculty. Inquiries should be directed to Cynthia Stauffacher, Chair, Structural Biology Search Committee at [StructureSearch@bio.purdue.edu](mailto:StructureSearch@bio.purdue.edu) or **Structural Biology Search Committee, Department of Biological Sciences, Purdue University, 915 W. State St., West Lafayette, IN 47907-2054**. Review of applications will begin **October 1, 2016** and continue until the position is filled. A background check is required for employment in this position.

*Purdue University is an EOE/Affirmative Action employer. All qualified applicants, including minorities, women, individuals with disabilities and veterans are encouraged to apply.*