

Transmission Electron Microscopist – Microscopy Imaging Facility

The Pennsylvania State University College of Medicine, Hershey, Pennsylvania

The PSU College of Medicine seeks qualified applicants for a Transmission Electron Microscopist position within our Core Facility. The successful candidate will be responsible for all aspects of TEM sample preparation and image acquisition in a recently constructed 600 sq ft laboratory equipped with a JEOL 1400 TEM, plus all needed sectioning and other equipment. The TEM facility is part of our Microscopy Imaging Facility (<http://www.pennstatehershey.org/web/core/microscopy-histology>), which provides a range of microscopy imaging acquisition services (in addition to TEM) to PSU researchers, including CryoEM, Confocal, Multiphoton, and Deconvolution microscopy, and advanced image processing with AUTO3DEM, EMAN2, Bitplane IMARIS, VOLOCITY, and HUYGENS Deconvolution software. The Microscopy Imaging Facility currently occupies >2000 square feet of space and is equipped with a JEOL 2100 Cryo-EM, a Leica SP8 White Light Laser Confocal, a DeltaVision Elite Deconvolution Microscope, and a Nikon A1MP+ Multiphoton Microscope System, in addition to the JEOL 1400 TEM.

Minimum qualifications for the position include a Bachelor's Degree in Science (M.S. or Ph.D. degrees in a relevant field would be a plus) with extensive hands-on experience in transmission electron microscopy imaging, relevant sample preparation methods involving biological tissues and cell lines, negative staining, immune-labeling procedures, and preferably additional core facility management experience. The primary expertise required for the position will be in TEM microscopy and relevant sample preparation methods. Not required but advantageous would be additional experience in light microscopy and CryoEM methods. The successful candidate must show evidence of strong interpersonal communication skills as well as the ability to collaborate with others, as (s)he will be working with a wide variety of biomedical researchers to aid in the design and successful completion of diverse research projects. Grant writing experience is not required, but would be a plus in possible instrumentation grant preparation, working with researchers in our various departments and institutes (e.g., the Penn State Clinical and Translational Science Institute, the Penn State Hershey Cancer Institute, the Heart and Vascular Institute, and the Huck Institute of the Life Sciences).

Review of applications will begin immediately and continue until the position is filled. Salary will be commensurate with the candidate's experience and qualifications. Candidates should provide a single PDF packet containing a letter of application, a concise statement of relevant research experience in transmission electron microscopy methods and imaging, curriculum vitae, and names and contact information for three references. This should be sent to Dr. John W. Wills, Chair of the TEM search committee, at jjww4@psu.edu. Candidates should also apply online at <https://psu.jobs/job/58857>.

The Pennsylvania State University College of Medicine is an equal opportunity, affirmative action employer. Women and minority candidates are especially encouraged to apply. For your health, we are a non-smoking campus.