Northwestern University’s Atomic and Nanoscale Characterization Experimental (NUANCE) Center and Department of Materials Science and Engineering are currently seeking a Postdoctoral Research Associate in Aberration Corrected - Scanning/Transmission Electron Microscopy (AC-S/TEM). Founded and directed by Prof. Vinayak P. Dravid, NUANCE, as the Midwest node of the NSF’s National Nanotechnology Coordinated Infrastructure (NNCI), houses comprehensive sample preparation and atomic-nanoscale characterization capabilities for soft, hard and soft-hard hybrid structures.

The successful candidate will be supervised by Dr. Xiaobing Hu to develop advanced TEM applications and in-situ TEM methods on various materials system including engineering alloys, battery materials, thermoelectric materials and organic perovskite solar cells. The incumbent will oversee training of NUANCE users and collaborate with many excellent research groups in the department of Material Science and Engineering and Chemistry. As there will be ample opportunity to publish in top journals and assist in writing research and equipment proposals, the candidate must have excellent written and oral communication skills.

Requirements

- The preferred candidate should have a doctoral degree in Materials Science and Engineering, Chemistry, Physics, or related field.
- The candidates should have a strong background in TEM and should be very familiar with various TEM methods including atomic resolution HAADF/ABF/BF/EDS/EELS imaging. Previous experiences on in-situ TEM is highly desirable.
- The candidate should have strong motivation, ambition and passion for academic research; a proven publishing record is required.
- Additional coding skillset for imaging processing is a plus.

The position is available immediately for two years with the possibility for extension or promotion to a permanent research position. The position offers a competitive salary based on qualifications.

Contact

Applicants should send introduction letter (including research goals), CV, and three references to Dr. Xiaobing Hu (xbhu@northwestern.edu).

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.