

Open Positions | Postdoctoral Research Associates

Advanced Electron Microscopy

Postdoctoral research associate positions are immediately available at Northwestern University in the area of development and applications of aberration corrected TEM and/or *in-situ* TEM on various emerging material systems including all-solid-state batteries, catalysts, organic perovskite solar cells and metal-organic framework. The candidate will mainly perform research work on the degradation/evolution process of above materials under different stimuli and environments based on various advanced S/TEMs equipped with direct electron detectors and various *in-situ* specimen stages.

The candidate will conduct their research work in the Northwestern University Atomic and Nanoscale Characterization Experimental ([NUANCE](#)) Center, which was founded and directed by Prof. Vinayak P. Dravid. NUANCE is part of the NSF-NNCI program (called [SHyNE Resource](#)) in the greater Midwest and houses the most comprehensive sample preparation and atomic-nanoscale characterization capabilities for soft, hard and hybrid structures. Besides the independent research work, the candidate has opportunities to collaborate with many excellent research groups in the department of Material Science and Engineering and Chemistry.

Requirements

- The preferred candidate should have a doctoral degree in Physical Science/Engineering.
- The candidates should have a strong background in S/TEMs and should be very familiar with various S/TEM methods including atomic resolution HAADF/ABF/BF/EDS/EELS imaging.
- Previous experiences on *in-situ* TEM is highly desirable, and coding and data analysis skillset are a plus.
- The candidate should have strong motivation, ambition and passion for academic research. A proven publication record is required.

The position is available immediately for two years with the possibility for extension or promotion to a research faculty position.

Contact

Applicants should send CV and three references as single PDF to:
nuance@northwestern.edu