

Postdoc Appointee - Quantum Emitter Electron Nanomaterial Microscope (QuEEN-M) JG

Job Description

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The Nanoscience and Technology division at Argonne National Laboratory is seeking three Postdoctoral Appointees to develop and conduct independent research related to quantum information science utilizing the new Quantum Emitter Electron Nanomaterial Microscope (QuEEN-M). This microscope is part of a DOE NSRC grant to study quantum defects and emitters using state-of-the-art probe corrected STEM, cathodoluminescence, and ultrafast techniques. Postdocs will be responsible for performing collaborative research with internal and external scientists, including planning, designing and executing experiments. Appointees will develop novel experimental techniques along with staff, utilizing the QuEEN-M. Other duties will include data analysis and management, sample preparation, other metrologies and reporting results in appropriate form with an emphasis on high impact scientific journals.

Education and Experience Requirements

Required:

- A Ph.D. in Materials Science/Physics/Chemistry or related field within the last 3 years

Preferred:

- Knowledge of quantum emitters and various QIS systems
- Software skills for high level programming (Matlab, Python, etc) and data visualization are desirable.
- Experience with advanced characterizations, including STEM, TEM, EDS, EELS, cathodoluminescence, photoluminescence, ultrafast spectroscopy
- Skills and organization in data processing, evaluation, and interpretation.
- Ability to present reports at meetings or conferences and prepare manuscripts for publication.
- Strong oral and written communication skills at all levels of the organization.
- Ability to work in a team environment.
- A successful candidate must have the ability to model Argonne's Core Values: Impact, Safety, Respect, Integrity, and Teamwork.

Job Family

Postdoctoral Family

Job Profile

Postdoctoral Appointee

Worker Type

Long-Term (Fixed Term)

Time Type

Full time

Pay Frequency

Annual

As an equal employment opportunity and affirmative action employer, and in accordance with our core values of impact, safety, respect, integrity and teamwork, Argonne National Laboratory is committed to a diverse and inclusive workplace that fosters collaborative scientific discovery and innovation. In support of this commitment, Argonne encourages minorities, women, veterans and individuals with disabilities to apply for employment. Argonne considers all qualified applicants for employment without regard to age, ancestry, citizenship status, color, disability, gender, gender identity, gender expression, genetic information, marital status, national origin, pregnancy, race, religion, sexual orientation, veteran status or any other characteristic protected by law.

Argonne employees, and certain guest researchers and contractors, are subject to particular restrictions related to participation in Foreign Government Sponsored or Affiliated Activities, as defined and detailed in United States Department of Energy Order 486.1A. You will be asked to disclose any such participation in the application phase for review by Argonne's Legal Department.

All Argonne offers of employment are contingent upon a background check that includes an assessment of criminal conviction history conducted on an individualized and case-by-case basis. Please be advised that Argonne positions require upon hire (or may require in the future) for the individual be to obtain a government access authorization that involves additional background check requirements. Failure to obtain or maintain such government access authorization could result in the withdrawal of a job offer or future termination of employment.

Please note that all Argonne employees are required to be vaccinated against COVID-19. All successful applicants will be required to provide their COVID-19 vaccination verification as a condition of employment, subject to limited legally recognized exemptions to COVID-19 vaccination.

External Site URL https://argonne.wd1.myworkdayjobs.com/Argonne_Careers/job/Argonne-National-Laboratory/Postdoc-Appointee---Quantum-Emitter-Electron-Nanomaterial-Microscope--QuEEN-M--JG_412049-1

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Job Details

Job Requisition ID 412049

Location Argonne National Laboratory

Posting Date 12/17/2021 - Today

Job Family Postdoctoral Family

Time Type Full time

Job Type Long-Term (Fixed Term)

Supervisory Organization NST Nanoscience & Technology (Jianguo Wen)

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