

**Professor of the Practice in Cleanroom Facility
Washington University in St. Louis**

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Posted Apr. 5, 2024, set to expire Aug. 7, 2024

Job Title	Professor of the Practice in Cleanroom Facility
Department	Mechanical Engineering and Materials Science https://imse.wustl.edu/
Institution	Washington University in St. Louis St. Louis, Missouri
Date Posted	Apr. 5, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Prof of Practice/Clinical Prof
Academic Field(s)	Nanotechnology Materials Sciences/Polymer Sciences
Job Website	http://apply.interfolio.com/143724
Apply Online Here	http://apply.interfolio.com/143724
Apply By Email	
Job Description	

Professor of the Practice in Cleanroom Facility

The Institute of Materials Science & Engineering (IMSE) and the Department of Mechanical Engineering & Materials Science at Washington University in St. Louis invite applications for a Professor of the Practice specializing in cleanroom micro- and nano-fabrication. This hire will support the IMSE cleanroom user facility, a shared university resource for research and teaching. Candidates for this non-tenure track faculty position are expected to enrich the curriculum, building on their distinguished record of technical contributions in the field, and support the university's research

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mission by maintaining the facility to the highest standards for performance and accessibility for users.

Major responsibilities:

- Teaching two 3-unit courses per academic year, open to both graduate and undergraduate students, covering topics related to micro- and nano-device fabrication and characterization.
- Teaching a workshop or short course during the summer.
- Managing the cleanroom facility including training of users, supervising technical staff, overseeing routine maintenance and upkeep of a large and diverse set of instrumentation, coordinating equipment installation, and maintaining high standards of safety.

Additional activities include coordinating with faculty and research administrators on the use of existing equipment and acquisition of new instruments; providing up-to-date information on the facility website with detailed status of equipment, capabilities, recipes, and performance metrics; expanding the user base through outreach to local universities and companies; and organizing the annual IMSE Open House with other IMSE staff. Interaction with students, faculty, university leadership, and the external academic and industrial user base will be an important element of this position, and strong speaking and written communication skills are essential.

The IMSE cleanroom is a central resource for micro- and nano-fabrication research in the greater St. Louis metropolitan area. It houses state-of-the-art equipment for thin-film deposition and growth, optical and electron beam patterning, plasma etching, and metrology tools. The facility attracts users from across the university including the McKelvey School of Engineering, the School of Arts & Sciences, and the School of Medicine, as well as local and regional universities and corporations. The cleanroom has both a research mission serving over 50 faculty labs across the university, and an education mission to train the next generation of scientists and engineers in practical fabrication techniques for use in academic and industrial research settings.

Washington University in St. Louis is a private university with about 16,000 students. It is surrounded by and adjacent to museums, performance venues, vibrant entertainment and dining districts, one of the nation's largest civic parks, and beautiful, tree-lined neighborhoods rich in history and diversity. The campuses are well served by the region's light rail and bus service and have easy access to major interstate highways. [St. Louis](#) is consistently ranked among the nation's most affordable and best places to live and raise families. Washington University provides comprehensive and competitive [benefits](#) for all faculty and their families.

Position requirements:

- PhD in Physics, Chemistry, Materials Science and/or Engineering, or a relevant Engineering

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degree.

- A minimum of 7 years of experience working in an industrial or research/academic cleanroom.
- Academic, personnel, and/or facilities management experience will be particularly valued.

Applicants should submit a cover letter, CV/resume, one page description of prior cleanroom work experience, one page description of prior teaching experience (if applicable), and the contact information for three references to <http://apply.interfolio.com/143724>

Please address questions about this position to imse_director@wustl.edu

EEO/AA Policy

Washington University in St. Louis is committed to the principles and practices of equal employment opportunity and especially encourages applications by those underrepresented in their academic fields. It is the University's policy to provide equal opportunity and access to persons in all job titles without regard to race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, protected veteran status, disability, or genetic information.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

St. Louis, MO 63130

Contact E-mail imse_director@wustl.edu