



Open Tenure-track Faculty Position Materials Science and Engineering (MSE1)

The Department of Materials Science and Engineering (<https://mse.osu.edu/>) and the Center for Electron Microscopy and Analysis (CEMAS, <https://cemas.osu.edu/>) at The Ohio State University invite applications for a regular tenure-track faculty appointment in the area of electron microscopy.

University Overview

[The Ohio State University](https://www.osu.edu/) sets the stage for academic achievement and innovation. It's where friendships are forged, tradition is brought to life, and a better global community is built. Our mission is as clear today as it was 150 years ago: to illuminate a pathway to education, research and health care that creates vibrant futures. Faculty and staff build the incomparable Buckeye spirit through collaboration, a strong sense of community and an unwavering commitment to excellence. Ohio State is a university that seeks and welcomes diverse ideas, perspectives, and views. Academic freedom is a core value of our institution and Ohio State is committed to creating learning opportunities in which all members of the university community can engage in frank, meaningful discussions with others of differing views. More info can be found at (<https://odi.osu.edu/education-citizenship-initiative>)

Ohio State is a dynamic community where opportunity thrives, and individuals transform themselves and their world. Ohio State is a top-20 public university, enrolling over 60,000 students, and its Ohio State Wexner Medical Center is one of America's leading academic health centers and recently ranked No. 4 on Forbes' list of best U.S. employers for diversity. More info about The Ohio State University can be found at (<https://www.osu.edu/>)

College Overview

The [College of Engineering](https://engineering.osu.edu/) offers 14 undergraduate and 13 graduate programs in 12 departments or centers, as well as three undergraduate and four graduate degrees in the Knowlton School of Architecture, to approximately 10,000 students. The college has recently expanded its degree offerings with a BS in Engineering Technology available on the regional campuses of the university. The college is one of the largest and impactful institutions in the field with 405 engineering and architecture faculty members. Included in this total are 328 tenure track faculty, 54 clinical track faculty, and 23 research track faculty. The college has 14 National Academy of Engineering members and numerous members of societies and reward recipients. In fiscal year 2020, the college had nearly \$138.5 million in externally sponsored research expenditures. Industry R&D expenditures for the College of Engineering in fiscal year 2020 totaled nearly \$44 million.

College of Engineering provides fertile ground for innovation and collaboration, and it shares the land-grant mission to create, transfer, and preserve knowledge for the purpose of enhancing economic competitiveness regionally, nationally, and globally and by preparing professionals ready to sustain and advance society. The College of Engineering strives to create a diverse and inclusive environment where all students, staff, and faculty can thrive (<https://engineering.osu.edu/diversity>). We understand that diversity and inclusion are essential components of excellence in the College of Engineering. We are committed to establishing a culturally and intellectually diverse environment, encouraging all members of our learning community to reach their full potential. We seek candidates who are committed to contributing to diverse, equitable, and inclusive learning and working environments for our students, staff, and faculty. More information about the College of Engineering can be found at (<https://engineering.osu.edu/>)

Columbus Overview

As the nation's 14th largest city, Columbus invites and embraces cultural and economic diversity. We are home to Fortune 500 companies, world-class research institutes, top-ranked hospitals, and the state's capitol. The city was named the 2015 "Intelligent Community of the Year" by the Intelligent Community Forum, called a "Midwestern style capital"

by the New York Times and one of the top ten "Best Places to Live" by Money Magazine. Columbus is home to multiple dynamic arts districts. Read more at ([Experience Columbus](#)).

Department Overview

One of the largest, leading materials programs in the country, the Department of Materials Science and Engineering at The Ohio State University aims to transform how materials are synthesized, developed, processed, characterized and joined. We translate this innovation into educational experiences that expose students to state-of-the-art experimental and computational techniques, delivering the required preparation and skills to be leaders in the materials industry and academia. The department is ranked 12th amongst all departments nationally and is ranked 7th amongst public universities (based on USN&WR 2021), and is internationally recognized in the areas of materials characterization, materials modeling, welding/joining, and corrosion science.

The department's facilities span five campus buildings with over \$30 million of advanced equipment to synthesize materials for biological, electronic, energy, and structural applications; to characterize their structure, properties and performance; to join them without compromising performance; and to design them to survive harsh environments.

We aim to be a top 10 U.S. materials department in which we leverage our comprehensive expertise to:

- enable and amplify the academic, technological, and societal impact of our research and development
- produce undergraduates who are strong ambassadors for the department by demonstrating the technical fluency necessary to excel in professional environments and engage in lifelong learning
- increase diversity in the graduate student body, in part through cooperative recruitment, support, and retention activities with Ohio State (WSE, AGEP) and national resources (such as NSF AGEP supplements)
- foster a collaborative, diverse, and inclusive learning environment that supports the creation and dissemination of knowledge to the broader (global) community

Position Overview

The Department of Materials Science and Engineering (<https://mse.osu.edu/>) and the Center for Electron Microscopy and Analysis (CEMAS, <https://cemas.osu.edu/>) at The Ohio State University invite applications for a regular tenure-track faculty appointment in the area of electron microscopy. Appointment is anticipated at the rank of Assistant or Associate Professor and tenure will be possible based on experience and accomplishment. Ohio State has a long tradition in electron microscopy research and expertise. With >\$39M of state-of-the-art instruments housed within a custom designed environment CEMAS is widely recognized as one of the premier electron microscopy facilities in the world. The successful applicant will be expected to deepen and complement existing MSE departmental strengths in materials characterization and computational materials science, to develop and sustain active sponsored research programs, to develop and deliver compelling core undergraduate and/or graduate courses, to support and enhance the reputation of CEMAS, and be an active participant in the international electron microscopy and materials science communities. Research leadership is expected, including the ability to attract significant federal funding and industrial partnerships to sustain a vibrant research program. Candidates with interests in cryogenic electron microscopy for materials science applications are of particular interest, but all specializations within the field of electron microscopy will be considered.

Required Qualifications

- doctoral degree in materials science and engineering, or in a closely related field.

Desired Qualifications

- be committed to promoting diversity and inclusion in all areas of scholarship, instruction, and outreach,
- have experience working cooperatively and collegially to advance research and/or teaching programs with greatest efficiency and highest impact.

How to Apply

Interested applicants should submit an application in Academic Jobs Online:

(<https://academicjobsonline.org/ajo/jobs/19076>).

Please include a cover letter, curriculum vita, diversity statement (describe experiences, current interests or activities, and/or future goals that promote a climate that values diversity and inclusion in one or more of the areas of scholarship, instruction and outreach), statements of teaching and/or research interests, and names and contact information of five references commensurate with the rank sought.

The Ohio State University is committed to establishing a culturally and intellectually diverse environment, encouraging all members of our learning community to reach their full potential. We are responsive to dual-career families and strongly promote work-life balance to support our community members through a suite of institutionalized policies. We are an NSF ADVANCE Institution, a member of the Ohio/Western Pennsylvania/West Virginia Higher Education Recruitment Consortium (HERC), and have an excellent partner in The Ohio State University Wexner Medical Center.

The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to age, ancestry, color, disability, ethnicity, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, gender, sexual orientation, pregnancy, protected veteran status, or any other bases under the law.

Application deadline: 20th September, 2021