

Director, Center for Electron Microscopy and Analysis
The Ohio State University

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Posted Aug. 28, 2024, set to expire Dec. 30, 2024

Job Title	Director, Center for Electron Microscopy and Analysis
Department	The Department of Materials Science and Engineering
Institution	The Ohio State University Columbus, Ohio
Date Posted	Aug. 28, 2024
Application Deadline	Open until Filled
Position Start Date	Available immediately
Job Categories	Director/Manager
Academic Field(s)	Biology - General Sciences - General
Job Website	https://osujoblinks.com/fd96

Apply By Email

Job Description

Director, Center for Electron Microscopy and Analysis

Center for Electron Microscopy and Analysis

Department of Materials Science and Engineering

College of Engineering

The Department of Materials Science and Engineering and the College of Engineering at The Ohio

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State University invite applications for a Research Professor appointment as Director of the Center for Electron Microscopy and Analysis (CEMAS). This position will start as early as Summer 2025.

Position Overview

The Director of the Center for Electron Microscopy and Analysis (CEMAS) is a senior-level, non-tenure track position (Research Associate Professor or Professor). This individual will spearhead one of the largest and most advanced electron and ion beam microscopy centers in North America. The Director collaborates closely with key figures within the College of Engineering, partnering colleges, other College of Engineering and University Centers, and the Enterprise for Research, Innovation, and Knowledge (ERIK) at OSU. Responsibilities include providing leadership and strategic direction, developing and expanding research programs, enhancing the center's public profile, and fostering relationships with government, industry, and alumni. The Director is also tasked with consulting faculty, senior researchers, staff, and students, managing CEMAS's strategic and operational plans, and cultivating a culture of excellence, diversity, and inclusivity throughout the center. The position is intended to support the microscopy usage of researchers in physical and biological sciences within the university and external partners. The Director should have the potential to obtain external funding to support microscopy resources and research initiatives, and maintain and promote the visibility of CEMAS. The salary of this research faculty position will be 100% funded by CEMAS.

Performance Objectives

- **CEMAS Advocacy:** Enhance the visibility and reputation of CEMAS among professional societies, academic circles, industry, government agencies, and the media; and also within the University, College of Engineering, and the Department of Materials Science and Engineering. Foster and maintain robust relationships with governmental and industry partners.
- **Program Development and Execution:** Collaborate with faculty and researchers to uncover new funding prospects, assist in the preparation of proposals, secure financial support, and lead the business operations of the center. Cultivate cooperative relationships and alliances with primary R&D funding bodies and significant industry stakeholders.
- **CEMAS Operations and Growth:** Responsible for working together with the College, CEMAS Assistant Directors, and Faculty Advisory Committee to formulate, monitor, and implement the CEMAS budget, facilities plan, and equipment strategy. Engage closely with the Advisory Committees to identify, attract, and propose candidates for faculty/researchers at CEMAS.

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- **Stakeholder Engagement:** Foster, develop, and maintain relationships with external microscopy partners. Maintain regular interaction with leadership in College of Engineering, partnering Colleges, and the Enterprise for Research, Innovation and Knowledge. Promote active engagement with CEMAS Advisory Committees.
- **Research Team Management:** Direct the recruitment, development, and management of the CEMAS research team. Set research performance benchmarks and conduct regular evaluations of research team performance, progress, and compensation plans.
- **Overall Leadership:** Provide comprehensive leadership, strategic vision, and management for CEMAS.
- **Compliance:** Ensure that all CEMAS operations, personnel, and facilities adhere to the required standards and lab safety regulations.
- **Supervision:** Offer guidance and direction to CEMAS staff.

Qualifications

Required:

- PhD in Physical Science, Biological Science, Engineering, or any relevant field.
- A proven track record as a successful member of a research center, laboratory, or facility, with research activities closely aligned with those of CEMAS.
- Demonstrated capability to establish and maintain productive partnerships with colleagues.
- Experience in developing and leveraging collaborations between internal and external stakeholders.
- Familiarity with the operations and environment of a university setting.
- A strong track record of mentorship and guidance.

Desired:

- Executive-level management and leadership experience.
- Proven success in securing research funding from federal and/or industry grants.
- Demonstrated ability to nurture and maintain external research funding relationships.
- Capability to effectively collaborate with state and federal sponsors, as well as senior industry executives, to achieve ambitious goals.
- Experience in organizing and developing systems, staffing, and infrastructure for both established and emerging enterprises.

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- Excellent verbal and written communication skills.
- Demonstrated commitment to research, teaching, outreach, and engagement that align with Ohio State's [Shared Values](#).

How to Apply

<https://osujoblinks.com/fd96>

You will be presented with the opportunity to attach application materials in the Application Documents section.

Please be aware that you will not be able to edit your application after you apply (this includes application materials). Once you start the application you will need to fill it out to completion and upload each of the items listed below.

Please include the following required application materials in the Application Documents section:

- Cover Letter: 1-2 page letter summarizing your academic background and interest in this opportunity.
- CV (Curriculum Vitae): Detailed overview of your scholarly experience, including research experience, teaching and mentoring experience, service, funding, and publications.
- Leadership and Mentoring Statement: A statement of your approaches, experience, and philosophy regarding your teaching, mentoring, and/or leadership.
- Research / Vision Statement: Summary of your past research accomplishments, current work/research, and proposal for your plan as the Director of CEMAS.

A list of three references upon request

For questions regarding this position, please contact Prof. Jinwoo Hwang at hwang.458@osu.edu

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Application review:

Review of applications will begin on Oct. 1st, 2024.

Center Information

The Center for Electron Microscopy and Analysis (CEMAS) was established as a Center within the College of Engineering in 2013 to provide a world-class environment for the teaching and practice of electron microscopy. With one of the largest concentrations of electron and ion beam microscopy instruments in any North American institution, CEMAS brings together multidisciplinary expertise to drive synergy, amplify characterization capabilities and challenge what is possible in analytical electron microscopy. CEMAS offers a full-service, expertly designed environment for researchers to execute their entire microscopy and analysis project. Located in a purpose-built facility on the university's West Campus, every instrument meets or exceeds manufacturer performance specifications. The team at CEMAS delivers comprehensive assistance to all users, facilitating the application of electron microscopy to a great breadth of science and academia and industry – from biomaterials and bio-inspired materials to nanoelectronics, energy materials, advanced structural materials and medicine.

For more information, please visit cemas.osu.edu.

Department Information

The mission of the Department of Materials Science and Engineering (MSE) is to create, transfer, and preserve knowledge through impactful research, dynamic teaching, and effective training in materials science and welding engineering. We believe that innovation is fostered through diverse interactions and are committed to an inclusive environment. As one of the largest materials programs in the country, MSE at The Ohio State University transforms materials synthesis, development, processing, characterization, and joining. We provide students with state-of-the-art experimental and computational techniques, preparing them to be leaders in the materials industry and academia. Our facilities include Mars G. Fontana Laboratories, which opened in 2020 after a \$59.1 million renovation, with Phase Two

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scheduled to open in 2025. Our core research areas include materials characterization, computational materials science, corrosion science/sustainability, and materials joining. Extensive equipment resources supports synthesis, characterization, and joining of materials for structural materials, ceramics and sensors, biomaterials and electronic/quantum materials.

The MSE undergraduate program is ranked 12th in the nation, and the graduate program 14th by U.S. News and World Report. Undergraduate students benefit from a 5:1 student-to-faculty ratio, dedicated advisors, and opportunities for research, internships, co-ops, global education, and professional societies. Graduate students enjoy state-of-the-art research facilities, interdisciplinary research, and national and international collaborations. The department comprises 34 tenure-track faculty, 4 clinical-track faculty, four research-track faculty, and eight joint faculty with appointments in various engineering and architecture disciplines. We offer BS, MS, and PhD degrees in materials science and engineering (MSE) and welding engineering (WE), with the only U.S. institution offering BS, MS, and PhD in WE. Our programs include a distance-learning MS in welding engineering, an accelerated BS/MS program, and an Integrated Business & Engineering Honors Program.

For more information, please visit our department website: <https://mse.osu.edu/>

The College of Engineering

Diversity, equity, and inclusion: The College of Engineering strives to be a national leader in diversity, equity, and inclusion. The college engages in and leads significant efforts to increase diversity among the field's future leaders through the office of Community, Access, Retention, and Empowerment Office (CARE). The CARE office offers a variety of student-centric programming designed to increase self-efficacy and foster community and provide resources to support our faculty and staff. All faculty are expected to participate in, support, and/or lead these efforts and to contribute to the department's inclusive climate via their work in one of many ways, including but not limited to; teaching, service, mentoring and advising. For more information about CARE, visit <https://engineering.osu.edu/CARE>.

Faculty Development: The Ohio State University and the College of Engineering are committed to

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support and develop faculty as well as the work-life balance of its faculty. These resources include The [Engineering Faculty Mentoring Program](#), the [Better Research through Better Mentoring program](#), and institutional memberships to the [National Center for Faculty Development & Diversity](#), and the [Center for the Integration of Research, Teaching and Learning](#). To learn more visit: <https://engineering.osu.edu/faculty-development>.

Learn more about the College of Engineering, the university and Columbus [here](#).

The University

Each day, Buckeyes across the state and around the world make a lasting impact.

The Ohio State University 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, staff, and students build the incomparable Buckeye spirit through collaboration, a strong sense of community and an unwavering commitment to excellence. Our strength comes from our ability to bring out the best in people and learn from Buckeyes of all backgrounds, passions, and talents.

Ohio State is a top-20 public university, 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. Eligible Ohio State employees receive comprehensive benefits packages, including medical, dental and vision insurance, tuition assistance for employees and their dependents, and state or alternative retirement options with competitive employer contributions.

The Ohio State University's [Shared Values](#) include Excellence and Impact, Diversity and Innovation, Inclusion and Equity, Care and Compassion, and Integrity and Respect. Our university community welcomes differences, encourages open-minded exploration and courageous thinking, and upholds freedom of expression.

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Ohio State is a dynamic community where opportunity thrives, and individuals transform themselves and their world. Positions are available in countless fields and specialties. Become a Buckeye and contribute to an incredible legacy that serves to guide our future and shape a better tomorrow.

The Ohio State University is committed to enhancing academic excellence. Recruiting, supporting, and retaining faculty of the highest caliber is a core component of this commitment. The Office of Academic Affairs (OAA) has established [Dual Careers and Faculty Relocation \(DCFR\)](#) to focus on supporting new and prospective faculty and their loved ones. Service offerings include dual careers partner consultations, identifying potential employers and/or employment opportunities, consultation and resources related to relocation, as well as identifying opportunities to engage on campus and in the surrounding community. While employment opportunities are not guaranteed, resources and consultation are provided to support the partners of new and prospective faculty as they are considering or transitioning to The Ohio State University.

In addition to being responsive to dual-career opportunities, we strongly promote work-life balance to support our community members through a suite of institutionalized policies. Ohio State is an [NSF ADVANCE](#) institution and a member of the [Ohio/Western Pennsylvania/West Virginia Higher Education Recruitment Consortium \(HERC\)](#).

Located in Ohio's capital city, Ohio State's Columbus campus is near the center of a rapidly growing and diverse metropolitan area with a population of over 1.5 million. The area offers a wide range of affordable housing, many cultural and recreational opportunities, excellent schools, and a strong economy based on government as well as service, transportation, and technology industries. Additional information about the Columbus area is available [here](#). In addition to its Columbus campus, Ohio State has four [regional campuses](#) including Ohio State Lima, Ohio State Mansfield, Ohio State Marion, and Ohio State Newark, in addition to Ohio State ATI in Wooster.



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Equal Opportunity Employer/Veterans/Disability.

Final candidates are subject to successful completion of a background check. A drug screen or physical may be required during the post offer process.

Contact Information

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

Contact Professor Jinwoo Hwang
The Ohio State University
Columbus, OH

Contact E-mail hwang.458@osu.edu