Tenure-Track Fellow to Faculty Position, LEGACY Program
The Ohio State University

Job Title	Tenure-Track Fellow to Faculty Position, LEGACY Program
Department	Engineering | Integrated Systems Engineering
Institution	The Ohio State University
	Columbus, Ohio
Date Posted	Nov. 12, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Material/Metallurgy
	Industrial & Systems Engineering
	Electrical and/or Electronics
	Computer Engineering
	Computer Science
	Engineering - Other
Job Website	https://osujoblinks.com/krm9
Apply Online Here	https://osujoblinks.com/krm9
Apply By Email	
Job Description	

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The College of Engineering's Fellow to Faculty program will recruit top scholars and academicians providing innovative solutions, technologies, and problem solving for emerging co-designed physical and computational systems including:

- Heterogeneous integration or advanced packaging of semiconductor -chips for the next generation of multidimensional electronic and photonic integrated circuits for electrification of transportation, renewable energy systems, AI, or other applications.
- Cyber-physical systems, encompassing control theory, real-time and embedded systems, computing protocols, sensor networks, robotics, and machine learning applied to the integration of computational algorithms and physical processes; Foundational aspects and methods in Machine Learning;
- Applications of machine learning in cybersecurity,
- AI for materials discovery, design, and deployment,
- AI-enabled inverse design tools that accelerate the discovery of advanced materials for improved performance and energy-efficient manufacturing.

Fellows will hold a disciplinary appointment in one of more of the following College of Engineering departments: Electrical & Computer Engineering (ECE: https://ece.osu.edu), Computer Science & Engineering (CSE: https://cse.osu.edu), Integrated Systems Engineering (ISE: https://ise.osu.edu), or Materials Science and Engineering (MSE: https://mse.osu.edu) at The Ohio State University. Two positions are anticipated, with primary research mentors housed in one of the fore mentioned departments. Fellows will start as early as Fall 2025.

Position Overview

The College of Engineering's Tenure-Track Fellow to Faculty Program is a two-year initiative designed to support early-career scholars in transitioning to a tenure-track position in one the participating departments. This cohort-based program provides Fellows with a structured, evidence-based mentoring model, allowing them to focus full-time on the development and expansion of their independent research portfolios for two years. During this period, Fellows have limited teaching and service requirements, although they may teach one course per year. Additionally, Fellows receive research funding and participate in career development programs to facilitate their transitions to an assistant professor role and long-term success.

Fellows will actively engage in scholarly activities within their respective departments and will develop a team of   primary (i.e., research), secondary (i.e., teaching and service), and cross-cultural mentors (i.e., in areas of Fellows' choosing) to guide their progress. Upon successful completion of the

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fellowship, Fellows will immediately transition to a faculty position at the rank of assistant professor within their home unit, and the tenure clock will begin. Since the offer for the faculty position is secured at the start of the program, Fellows will not need to re-interview for the tenure-track role. At that time, the home department will further facilitate the mentoring, promotion, and tenure process, ensuring a smooth and supported pathway to career advancement.

The position is open to applicants who may require sponsorship for a visa or other work authorization.

Performance Objectives

During the two-year program, Fellows will be expected to:

- Establish an independent line of research, mentoring undergraduate student researchers, participating on collaborative research teams, and present to technical audiences.
- Form research, teaching, and personal networks to inform their holistic growth as a Fellow.
- Engage in relevant department, college, university, and disciplinary communities that promote Scholars' professional and personal advancement.
- Engage in one-on-one and group sessions with mentors who will guide and critique Fellows' progress.
- Reflect and respond to formative and summative feedback of scholarly progress to advance their career trajectory.

After two years and a Fellow's transition to Assistant Professor:

- Engage in research, teaching, and service activities appropriate to the promotion and tenure of an assistant professor in their respective unit.
- Develop and maintain a nationally and internationally recognized and externally funded research program in their technical fields.
- Teach and mentor students at both the undergraduate and graduate levels and supervise student research.
- Participate in service to the university (internal) and the non-university (external) research community.

Required Qualifications for Fellows:

- D. in electrical engineering, computer engineering, computer science, materials science or integrated systems engineering or a closely related field that prepares the Fellow to conduct high-quality independent research at Ohio State
- Evidence of research accomplishments (papers, presentations, products, outreach, etc.) that

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align with the aforementioned research foci
- Evidence of an interest in excellence in teaching material in areas related to the aforementioned research foci
- Ability to learn from and engage with mentors, colleagues, and students with differing perspectives and backgrounds
- Ability to work with others in a collaborative, positive, congenial, and professional team environment
- Ability to build scholarly communities inside and outside Ohio State
- Interest working in a College in which inclusive excellence is a top priority
- Willingness to receive and act on formative and summative feedback from a cadre of mentors

Desired Qualifications:

- Dissemination of findings at national conferences and within peer-reviewed scholarly journals
- Openness to out of the box thinking and the application of nontraditional thinking to one's discipline
- A commitment to interdisciplinary education and collaborative research
- A track-record of, and strong commitment to, cultivating an equitable, diverse, and inclusive environment

Required Qualifications for Assistant Professor (at the end of two years):

- Establishment of a sustainable research agenda aligned with one or most of the research areas presented above.
- Good verbal and written communication skills
- Demonstrated leadership skills and the ability to collaborate proactively and effectively in an academic setting.
- Excellent interpersonal and communication skills, with a focus on working constructively, decisively, and collegially with both external and internal colleagues and interdisciplinary teams
- Openness to sharing ideas, continuously learning, and displaying innovative thinking.

Desired Qualifications for Assistant Professor (at the end of two years):

- Experience or training in mentoring and teaching

How to Apply

To learn more and apply, please visit: https://osujoblinks.com/krm9

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Direct Link: https://www.AcademicKeys.com/r?job=248725
Downloaded On: Nov. 14, 2024 9:13pm
Posted Nov. 12, 2024, set to expire Mar. 16, 2025

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, found in the My Experience step (Step 2 of the application process):

- Attachment 1: Cover Letter: 1-2 page letter, which should include a brief summary of your academic background and why you are interested in and aligned with this opportunity.
- Attachment 2: CV (Curriculum Vitae)/Resume: Detailed overview of your scholarly experience, including your research experience, teaching and mentoring experience, service, funding, and publications.
- Attachment 3: Research Statement: Summary of your past research accomplishments, current work/research questions, alignment with targeted research area(s), and proposal for your future research plan as a faculty member.
- Attachment 4: Teaching and Mentoring Statement: A statement of your approaches, experience and philosophy regarding your teaching, learning, and mentoring.
- Attachment 5: Service Statement: Summary of current and future internal and external professional service activities

See additional application material instructions here: https://engineering.osu.edu/faculty-career-opportunities/application-materials-instructions#legacy

Submit a list of 3 references upon request.

For questions regarding this position, please contact Dr. Monica Cox at cox.1192@osu.edu or 614-292-0573.

Application review: Review of applications will begin by December 1, 2024.

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 basis under the law.

Contact Information

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Contact

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