

OSU Assistant Associate Professor, Resilient Infrastructure 101218

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Prepared by:



**Assistant Associate Professor, Resilient Infrastructure**

**The Ohio State University**

**Department of Civil, Environmental and Geodetic Engineering, joint appointment in the Department of Integrated Systems Engineering**

**Position Description:** Applications are invited for a tenure-track Assistant or Associate Professor position in the field of **Resilient Infrastructure** at The Ohio State University. The primary appointment will be in the [Department of Civil, Environmental and Geodetic Engineering \(CEGE\)](#) with a joint appointment in the [Department of Integrated Systems Engineering \(ISE\)](#) in the College of Engineering at OSU. Areas of interest broadly include planning, design, monitoring, assessment, performance forecasting, and decision-making aspects of infrastructure systems with a focus on resilience and the nexus of resilience and sustainability. Methodologies of interest include, but are not limited to, physics-based modeling, stochastic representations, empirical techniques including statistical inference and machine learning, simulation, and optimization. Large-scale network-based infrastructure systems at any stage of the life-cycle are of particular interest, especially energy, wastewater, water, and transportation systems.

This position is among many substantial investments in faculty positions and research related to sustainability and resilience by the university to establish Ohio State as a global leader in these areas. The successful candidate will join a highly collaborative interdisciplinary community of scholars in the Sustainable and Resilient Economy (SRE) program <https://discovery.osu.edu/sustainable-and-resilient-economy>, which includes faculty members with varied disciplines spanning engineering, environmental sciences, city and regional planning, business, social and behavioral sciences, public health, and public policy. The SRE program seeks to advance sustainability science by developing a more holistic understanding of sustainable and resilient production and consumption systems, human-environment interactions, and innovations in sustainable technologies and governance. The successful candidate is expected to develop a nationally-recognized, externally funded research program; publish in high quality journals; participate in collaborative teams and interdisciplinary research on sustainability and resilience topics; contribute effective instruction at the undergraduate and graduate levels in the host departments; supervise and mentor graduate students; and provide professional and university service. This is a full-time (9-month) tenure-track position, beginning in August 2019.

**Required Qualifications:** An earned doctorate degree (or equivalent) in civil engineering, industrial engineering, or a closely related discipline prior to the August 2019 start date is required. Other required qualifications include an established record of research commensurate with prior training and specialization in areas pertaining to **Resilient Infrastructure Systems**; evidence of potential for

*developing a nationally-recognized research program; demonstrated potential for excellence in teaching in the host departments, and an ability to communicate effectively with faculty and students in large and small audiences. In addition, the successful candidate is expected to develop a course related to infrastructure resilience and sustainability.*

**Desired Qualifications:** *At least one engineering degree – preferably in civil or environmental engineering, at either the baccalaureate or post-baccalaureate level; post-doctoral experience; demonstrated experience collaborating on multi-disciplinary initiatives; and experience working with diverse populations.*

**Discovery Themes:** *This position is partially funded by Ohio State’s [Discovery Themes](https://discovery.osu.edu/) Initiative, a significant faculty hiring investment in key thematic areas in which the university can build on its culture of academic collaboration to make a global impact. Additional information about the Discovery Themes Initiative and SRE, in particular, is available at <https://discovery.osu.edu/>.*

**Institutional Description:** *The Ohio State University, a land-grant university, is ranked 20th among US universities in total research expenditures. It is fourth in the nation among all universities in industry-funded research expenditures. OSU is located in Columbus, which is the 15th largest city in the country with a metropolitan population of 1.9 million. Columbus offers a high quality of life, with affordable housing in vibrant neighborhoods, quality public schools, and economic prosperity <http://columbusregion.com/Living-Here.aspx>. It is a city that celebrates diversity and is consistently rated as one of the best places to live in the country for African-Americans, members of the LGBT community, and families. Columbus was named the 2015 Intelligent Community of the Year by The Intelligent Community Forum (ICF), the New York-based think tank.*

**Commitment to Diversity and Inclusion:** *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 and a member of the Ohio/Western Pennsylvania/West Virginia Higher Education Recruitment Consortium.*

*The Ohio State University is an EEO/AA employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or gender identity, national origin, disability status, or protected veteran status.*

**Application Process:**

*To apply: Please submit your application in a single book-marked PDF file [via Academic Jobs Online at MALINDA WILL INSERT LINK](#)*

*Please submit applications in a single bookmarked PDF that contains, in this order: (i) a cover letter; (ii) CV; (iii) a statement of scholarly contributions and proposed future research directions; (iv) a statement of relationship between proposed research and OSU’s Sustainable and Resilient Economy Discovery Theme program <<https://discovery.osu.edu/sustainable-and-resilient-economy>>, including potential collaborations with faculty members and researchers affiliated with this program; (v) a statement of*

teaching philosophy and interests; (vi) a list of three references, including names, positions, affiliations, and full contact information including email addresses, and (vii) up to three research papers, published, under review, or in preparation for publication in peer-reviewed journals. Review of applications will begin on Nov. 7, 2018 and continue until the position has been filled.

*The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, sexual orientation or identity, national origin, disability status, and protected veteran status.*