



STEAM Interdisciplinary Post-Doctoral Research Program

We invite applications from early career scholars (\leq five years since PhD or appropriate terminal degree) for the inaugural Interdisciplinary Postdoctoral Research program, starting Summer/Autumn 2019. The program offers a two-year **postdoctoral** opportunity for scholars focused on one of the following two themes: (1) **The Future of Mobility & Smart Cities**, and (2) **Sustainable Urban Systems**. We invite applicants whose work focuses on ambitious endeavors, spans multiple disciplines, and connects with public outreach and engagement. Applicants should specify their thematic focus in their statement of interest and how they would benefit from working in an urban setting within a multidisciplinary group, rather than in a traditional academic department on campus.

The STEAM Factory is a grassroots faculty network within the Ohio State University committed to collaboration and innovation in research, outreach, and education. With over 200 members in almost every school and college of Ohio State, we provide a space where researchers from all disciplines can broaden their perspectives, share resources, spark creative research ideas, and form collaborations. Located off-campus in the rising Franklinton neighborhood of downtown Columbus, the STEAM Factory also bridges the divide between the university and city, providing accessible outreach and informal STEM learning for the wider community.

The thematic focus areas for the inaugural program are supported in partnership with the **Sustainability Institute at Ohio State (SI)** and **Ohio State Energy Partners** (for Sustainable Urban Systems), and **Honda Research** (for Mobility and Smart Cities). With a network of over 200 researchers drawn from 40 academic units, the SI integrates scholarship and education on sustainability and resilience across the university. SI faculty are engaged in research on key topics including sustainable energy, land and water systems, resilient communities, and sustainable mobility. For more information on interdisciplinary research and education at SI, please visit <https://sre.osu.edu/home>

As a STEAM Postdoctoral researcher, you will have the opportunity to work with faculty from almost every discipline (<https://steamfactory.osu.edu/directory>). On a day-to-day basis, you would be expected to work directly with at least two core faculty mentors and their research groups, establishing a joint project that has potential for broader impact and innovative inquiry. Successful applicants will also be responsible (30-40% time) for developing new initiatives and managing ongoing programs at STEAM that further its mission of research collaboration and outreach. Scholars should be engaged in both their academic field and the local or regional community. Scholars are expected to be in residence at The STEAM Factory, 400 West Rich Street, Columbus OH, but will interact with their mentors regularly and will be provided travel funds to attend conferences. The STEAM Factory is a diverse and community-driven environment—we expect you to thrive in such a setting and contribute to it.

Terms:

- Position will remain open until filled, with priority given to applications received by April 15, 2019.
- Initial appointment is for one-year, with potential for 2nd year contingent on performance and funding.
- Annual salary: \$48,000-\$55,000 (commensurate with experience)

Application materials

- Curriculum vitae
- Cover letter that states the theme of interest (or if you wish to be considered for both themes)
- Brief statement of interest (2 pages max)
- Sample research paper
- Names of at least two references

Deadline: Review of applications will begin on April 15th and will continue until positions are filled.



Theme 1: Future of Mobility & Smart Cities

Requirements: PhD (or comparable training and experience) in mobility and smart city-related fields: transportation systems, statistics, computer science, mechanical engineering, operations research, industrial systems engineering, networks and optimization, or a related field. Excellent academic standing, the ability to conduct breakthrough research on smart cities, mobility, and next-generation transport. Strong foundational knowledge in simulation, data science, data analytics, and programming. Experience with working with large datasets and data infrastructure is preferred. Positive work attitude, good communication and interpersonal skills and an ability to work independently and in multi-disciplinary teams.

Theme 2: Sustainable Urban Systems

Requirements: PhD (or equivalent) in a relevant field of the social sciences, including economics, geography, public policy, planning, or environmental humanities. Applicants should demonstrate excellent academic standing and ability to conduct innovative research in sustainable urban development. We are particularly interested in candidates who use an integrative, systems approach to sustainability and resilience issues in application domains such as urban land use, transportation, energy, water systems, air quality, social equity, and climate change. Desired methodological skills include, but are not limited to, geospatial data analytics, geovisualization, or applied econometrics. We especially encourage applicants who can demonstrate collaborative work that bridges the social sciences with engineering, the natural sciences or humanities.

Please email application materials to Charlene Brenner (brenner.17@osu.edu). Feel free to contact Dr. Sathya Gopalakrishnan (gopalakrishnan.27@osu.edu) if you have any questions.