

Doctoral Research Fellow Positions (Fall 2026 or Spring 2027)

OPPORTUNITY DESCRIPTION

Amit Ojha, incoming Assistant Professor in the Department of Civil, Environmental & Architectural Engineering at the University of Kansas, is recruiting self-motivated Ph.D. students to join his research group, with flexible start date in Fall 2026 or Spring 2027. Potential Ph.D. students will undertake research projects focusing on advancing construction safety and workers' performance through the integration of robotics, artificial intelligence, and human-centered sensing systems.

Topics include but are not limited to:

- Robotics for construction automation and site monitoring
- AI-driven safety analytics and risk assessment
- Human-robotic interaction in dynamic environments
- Virtual reality and digital twin systems for training and decision support

QUALIFICATIONS

Candidates with degrees related to above-mentioned research areas, including Mechanical Engineering, Electrical Engineering, Computer Science, Civil Engineering, Construction Engineering and Management, or other closely related discipline are encouraged to apply.

Ideal candidates should have:

- Motivation in work in an interdisciplinary environment
- Interest in AI/ML theory and its application.
- Experience with robot control, path planning, and human-robot interaction
- Solid quantitative and problem-solving skills, for data-driven research
- Working knowledge in Python, MATLAB, ROS or robot simulation tools

What Really Matters: You don't need to check every box. If you are motivated to build systems, test ideas, and push boundaries in construction safety, you will be a strong fit.

ABOUT THE ADVISOR

Amit Ojha will join University of Kansas as a tenure-track Assistant Professor from August 2026. His research focuses on reimagining automation in construction, making it more intelligent, responsive, and grounded in human needs. Students will be closely mentored in designing and conducting research, publishing in top journals, and pursuing competitive fellowships. His group provides a collaborative, hands-on environment with opportunities to work on cutting-edge problems at the intersection of robotics, artificial intelligence, and construction engineering, preparing students for careers in academia, industry, and research labs.

ABOUT KU

The University of Kansas is a flagship, R1 research university and proud member of the Association of American Universities, reflecting a strong commitment to high-impact research and graduate education. The Civil, Environmental, and Architectural Engineering department is home to the Craig and Diane Martin National Center for Construction Safety, a leading initiative for advancing research and innovation in construction safety.

HOW TO APPLY

If you are interested, please fill out the form [<https://forms.gle/fctvqVFNiBWqe9xy9>]. I will reach out to candidates whose profiles are a strong fit.