

Postdoc and Ph.D. Open Positions | Spring/Fall 2026

[Description] Purdue Digital Twin Lab in the College of Engineering is looking for highly motivated scholars to join the lab in spring/fall 2026 for multiple postdoc and Ph.D. positions, focusing on the directions of:

- **[Foundation Models for Autonomous Driving]** Develop multimodal foundation models (LLMs/VLMs/VLAs) for perception, prediction, planning, and control of autonomous driving.
- **[Human-Autonomy Teaming]** Develop human-autonomy teaming systems with machine learning and personalized data to empower human-centered AI applications.
- **[Automated Vehicle Validation]** Integrate automated vehicle systems and validate through real-world pilot deployments with edge/cloud computing and V2X communications.
- **[Digital Twin]** Build digital twins for autonomous and connected systems with high-fidelity simulations, sim2real/real2sim transfer, and uncertainty-aware prediction.

[Requirements] Desirable candidates should have degrees in an engineering discipline, such as Electrical and Computer Engineering, Mechanical Engineering, Civil Engineering, and Computer Science. Priority will be given to candidates with a publication record in machine learning/computer vision/robotics/transportation journals and conferences. Interested candidates are encouraged to send resumes to ziran@purdue.edu with the email title "[Postdoc/PhD] Application-[Full Name]."

[Background] Dr. Ziran Wang is an Assistant Professor in the Lyles School of Civil and Construction Engineering, and the Elmore Family School of Electrical and Computer Engineering (by courtesy), at Purdue University. He also serves as Assistant Director of Purdue University Institute for Control, Optimization and Networks (ICON). Prior to joining Purdue in 2022, Dr. Wang worked at Toyota R&D in Silicon Valley as a Principal Researcher, leading the digital twin research roadmap. He serves as Founding Chair of the IEEE Technical Committee on Internet of Things in Intelligent Transportation Systems, and Associate Editor of *IEEE Internet of Things Journal*, *IEEE Transactions on Intelligent Transportation Systems*, and *IEEE Transactions on Intelligent Vehicles*. He is the author of over 80 refereed publications in top-tier journals and conferences (e.g., CVPR, ICRL, ICCV), and 50 patent applications in the U.S., Japan, and China. He received a Ph.D. degree from the University of California, Riverside, and is currently an IEEE Senior Member. Dr. Wang directs the Purdue Digital Twin Lab, which is currently funded by various government agencies and industry collaborators. The students have secured full-time/internship positions from leading industry players, including Waymo, Zoox, Toyota, and Bosch.

For more information, visit <http://ziranw.github.io> and <https://purduedigitaltwin.github.io/>.

