

Ph.d. Position in Autonomous Robotic Systems and
Sensor Development for Infrastructure Monitoring
University of South Carolina

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Posted Jul. 12, 2024, set to expire Nov. 11, 2024

Job Title	Ph.d. Position in Autonomous Robotic Systems and Sensor Development for Infrastructure Monitoring
Department	Mechanical Engineering
Institution	University of South Carolina Columbia, South Carolina
Date Posted	Jul. 12, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Robotics Mechatronics Mechanical Engineering Electrical and/or Electronics Computer Engineering Computer Science Civil Engineering Aerospace/Aeronautical/Astronautics Engineering - Other

Apply By Email

Job Description

Are you interested in doing a Ph.D. in autonomous robotic systems and sensor development for infrastructure monitoring? Are you interested in developing cyber-physical systems with edge computing capabilities, particularly focused on sensors for monitoring the systems around us that make up our infrastructure? Do you have expertise in UAV development, deep-learning-based autonomous

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systems, edge computing, and system integration? The ARTS-Lab at the University of South Carolina is looking for a single Ph.D. student to work on a range of projects focused on developing next-generation autonomous and autonomously deployed sensing systems. The ideal candidate should be able to develop UAV systems and controllers (ROS) from scratch and have experience in deploying machine learning models (YOLO) to edge computing devices. This work will involve creating collaborative UAV systems enabling AI/ML at the edge using this novel hardware for a range of sensing applications.

We expect well-positioned candidates to have an M.S. in Electrical Engineering, Computer engineering, Mechanical Engineering, or Civil Engineering (with appropriate experience). All quality candidates will be considered. The Ph.D. position will be within the Department of Mechanical Engineering.

If you are interested in such a challenging position, please do two things. First, read these papers

<https://lnkd.in/eBfWF4nW>

<https://lnkd.in/eygFPXmG>

<https://lnkd.in/epv4v8ag>

<https://lnkd.in/eKFBHvNa>

and look in detail at these GitHub repositories

<https://lnkd.in/et7FHsm3>

<https://lnkd.in/e96Wnfw7>

If the development of these systems is of interest to you and you possess some of the skills listed above, please reach out to me at austindowney@sc.edu. Please put "Robotics/Sensors Ph.D. Position" in the subject line and send me your application documents as you see fit. GRE scores are encouraged but not required. please provide a cover letter on how your skills align with the project, using The desired skills and background in this post as a starting point. We are looking for a student to start January 2025, or potentially May 2025.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Austin Downey
Mechanical Engineering

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