

MS, Ph.D., and Postdoc Openings in Mechatronics and  
Autonomous Systems  
University of South Carolina

Direct Link: <https://www.AcademicKeys.com/r?job=236004>

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Posted May 12, 2024, set to expire Sep. 11, 2024

**Job Title** MS, Ph.D., and Postdoc Openings in Mechatronics and Autonomous Systems

**Department** Mechanical Engineering

[https://sc.edu/study/colleges\\_schools/engineering\\_and\\_computing/faculty-staff/yi\\_wang.php](https://sc.edu/study/colleges_schools/engineering_and_computing/faculty-staff/yi_wang.php)

**Institution** University of South Carolina  
Columbia, South Carolina

**Date Posted** May 12, 2024

**Application** Open until filled  
**Deadline**

**Position Start** Immediately  
**Date**

**Job Categories** Graduate Student  
Post-Doc

**Academic** Water Resources Engineering  
**Field(s)**

Transportation Engineering

Textile Engineering

Sustainable Engineering

Structural Engineering

Robotics

Optics & Optical Engineering

Ocean Engineering

Nuclear

Naval Architecture & Marine Engineering

Mechatronics

Mechanical Engineering

Manufacturing & Quality Engineering

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Industrial & Systems Engineering  
Human Factors Engineering/Ergonomics  
Food Process Engineering  
Engineering Physics  
Engineering Mechanics  
Energy Technology  
Electrical and/or Electronics  
Computer Engineering  
Computer Science  
Construction Engineering/Management  
Civil Engineering  
Chemical/Petroleum  
Bioengineering (all Bio-related fields)  
Aerospace/Aeronautical/Astronautics  
Engineering - Other

**Job Website** <https://research.cec.sc.edu/wang>

**Apply By Email** [yiwang@cec.sc.edu](mailto:yiwang@cec.sc.edu)

**Job Description**

**MS, Ph.D., and Postdoc Openings in Mechatronics and Autonomous Systems**

MS and PhD positions (with full graduate research assistantship-GRA) and postdoc positions in Mechanical Engineering are available immediately or starting in Fall 2024 within the research group of Dr. Yi Wang at the University of South Carolina-USC (Columbia/Main campus, <https://research.cec.sc.edu/wang>) to develop reliable perception for unmanned maritime systems. The GRA will fund MS/PhD tuition, fees and health insurance, and stipend. The position entails

**Mechatronics and Autonomous Systems**

The project will investigate and develop a reliable maritime perception system (EO/IR and radar) for

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autonomous surface vessels (including both software and hardware).

**Required Qualifications:**

- Bachelor's degree in a relevant engineering field of study from an accredited college or university.
- Experience with robotic system development and ROS programming.
- Strong interest and self-motivation to perform cutting-edge research and conquer challenges in real-world engineering and to publish high-impact papers
- Must be a US permanent resident or a US citizen.

**Preferred Qualifications:**

- Hands-on experience with embedded system and electronics and control modules, such as Jetson TX series, Intel NUC, Raspberry Pi, and Arduino.
- Experience with Vis/NIR camera system or radar system.
- Experience in developing machine learning, signal processing, and optimization algorithms using Pytorch, TensorFlow, NumPy, and other relevant.
- Hands-on experience with programming in Python, Matlab, C/C++, or other object-oriented programming languages

UofSC is the flagship university in the State of South Carolina, and the Ph.D. program at the department of Mechanical Engineering is ranked No. 31 nationally by the National Research Council (NRC) (<http://www.me.sc.edu/about/>), and the College of Engineering and Computing is ranked No. 1 in the State of South Carolina for faculty research productivity.

The group of Dr. Wang focuses on computational and data-enabled science and engineering (CDS&E) and its applications in real-world multiphysics systems, including robotics and autonomy, additive manufacturing, aerodynamics & aerospace, railroad engineering. Our group aims to discover and develop new methodologies, framework, and capabilities to bridge CDS&E and system engineering in the real world and with particular emphasis on multiphysics and engineering intelligence. To apply, please send your CV/Resume, publications, etc. in a single PDF to Dr. Wang ([yiwang@cec.sc.edu](mailto:yiwang@cec.sc.edu)) with the email subject "Position Application".

**Contact Information**

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

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