

Postdoc and Ph.D. Openings in Radar and Image
Processing and Autonomy
University of South Carolina

Direct Link: <https://www.AcademicKeys.com/r?job=230976>

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Posted Feb. 18, 2024, set to expire Jun. 19, 2024

Job Title Postdoc and Ph.D. Openings in Radar and Image Processing and Autonomy

Department Mechanical Engineering
https://sc.edu/study/colleges_schools/engineering_and_computing/faculty-staff/yi_wang.php

Institution University of South Carolina
Columbia, South Carolina

Date Posted Feb. 18, 2024

Application Deadline May 15, 2024

Position Start Date Immediately

Job Categories Graduate Student
Post-Doc

Academic Field(s) Transportation Engineering
Transportation Engineering
Water Resources Engineering
Mechanical Engineering
Robotics
Naval Architecture & Marine Engineering
Naval Architecture & Marine Engineering
Sustainable Engineering
Mechatronics
Industrial & Systems Engineering
Nuclear
Mechanical Engineering
Ocean Engineering

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Mechatronics
Optics & Optical Engineering
Structural Engineering
Ocean Engineering
Sustainable Engineering
Manufacturing & Quality Engineering
Optics & Optical Engineering
Nuclear
Manufacturing & Quality Engineering
Structural Engineering
Textile Engineering
Robotics
Water Resources Engineering
Textile Engineering
Industrial & Systems Engineering
Human Factors Engineering/Ergonomics
Human Factors Engineering/Ergonomics
Geomatics
Geomatics
Food Process Engineering
Food Process Engineering
Engineering Physics
Engineering Physics
Engineering Mechanics
Engineering Mechanics
Energy Technology
Energy Technology
Electrical and/or Electronics
Electrical and/or Electronics
Computer Engineering
Computer Engineering
Computer Science

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Computer Science
Construction Engineering/Management
Construction Engineering/Management
Civil Engineering
Civil Engineering
Chemical/Petroleum
Chemical/Petroleum
Bioengineering (all Bio-related fields)
Bioengineering (all Bio-related fields)
Aerospace/Aeronautical/Astronautics
Aerospace/Aeronautical/Astronautics
Engineering - Other
Engineering - Other

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

Apply By Email yiwang@cec.sc.edu

Job Description

Graduate study positions with full graduate research assistantship (GRA) and postdoc positions in the Department of Mechanical Engineering and Department of Electrical Engineering are available immediately at the University of South Carolina (USC), Columbia to develop reliable perception for unmanned maritime systems. The GRA will fund MS/PhD tuition, fees and health insurance, and stipend. The positions entail

(1) Image Analysis, Radar and Radio Analyses

The project will investigate and develop image processing and signal analysis algorithms and models for small object detection and identification in maritime environment using radars. Initial focus of this position will be to establish quantified baseline performance levels achievable with radar.

Required Qualifications

- Bachelor's degree in a relevant engineering field of study from an accredited college or university.
- Hands-on experience with computing and programming in Python, Matlab, C/C++, or other object-

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oriented programming languages

- 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

- Experience in doing wireless channel propagation analyses, computer simulations, and measurements.
- Experience with radio frequency (RF) measurements, analyses, and simulations.
- Strong understanding of the state-of-the-art (and limitations) in radar performance, and understanding of synthetic aperture radar (SAR).

(2) Autonomous Systems and Field Testing and Demonstration

We will develop and field test a reliable, integrated perception system (Vis/NIR and radar) for autonomous surface vessels (including both software and hardware).

At least one of the qualifications below is preferred:

- Hands-on experience with embedded systems and electronics and control modules, such as Jetson TX series, Intel NUC, Raspberry Pi, and Arduino.
- Field experiments and testing of marine systems.
- Hands-on experience with programming in Python, Matlab, C/C++, or other object-oriented programming languages
- Strong interest and self-motivation to perform cutting-edge research and conquer challenges in real-world engineering and to publish high-impact papers
- Experience with machine shop and hardware engineering and assembly.
- Must be a US permanent resident or a US citizen.

USC 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.

To apply, please send your CV/Resume, publications, etc. in a single PDF (for Ph.D. applicants, transcripts, and GRE scores are also required) to Dr. Wang (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.

Contact Yi Wang
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