

Postdoctoral Research Position in Multi-Hazard Modeling
and Risk Assessment of Tropical Cyclones
Georgia Institute of Technology

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Posted Nov. 21, 2024, set to expire Mar. 22, 2025

Job Title Postdoctoral Research Position in Multi-Hazard Modeling and Risk Assessment of Tropical Cyclones

Department School of Earth and Atmospheric Sciences

<https://eas.gatech.edu/home>

Institution Georgia Institute of Technology

Atlanta, Georgia

Date Nov. 21, 2024

Posted

Application Dec. 20, 2024

Deadline

Position January 2025

Start Date

Job Post-Doc

Categories

Academic Atmospheric Sciences

Field(s)

Earth Sciences

Job <https://static1.squarespace.com/static/65d637cca895612eb08f63b7/t/6737ff12f5d64d49ac7896>

Website

Apply By sarhadi@gatech.edu

Email

Job

Description

The School of Earth and Atmospheric Sciences (EAS) at the Georgia Institute of Technology (Georgia Tech) seeks a highly motivated postdoctoral researcher to join our team in investigating multi-hazard

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risks associated with tropical cyclones in a warming climate. The researcher will focus on simulating multiple hazards from tropical cyclones, including compound flooding (from storm surge, torrential rainfall, and riverine flooding) and intense winds, as well as quantifying the direct and indirect economic impacts of these hazards due to climate variability and anthropogenic warming. This research involves advanced numerical modeling using observational data and physics-based synthetic tracks across various warming scenarios.

The successful candidate will work under the direction of Dr. Ali Sarhadi to conduct original research, write manuscripts for publication, participate in professional meetings, and collaborate with faculty and graduate students at Georgia Tech. The candidate will also be encouraged to develop and pursue their own areas of research interest. Research in the group involves a combination of observational analysis, theoretical work, and numerical modeling, which the candidate will be encouraged to integrate into their own research based on their interests. The trainee will receive mentorship to develop professional skills in research design and communication, grantsmanship, leadership, networking, and navigating the faculty job market. For more information about the position, please visit the group website at <https://www.sarhadilab.org/>.

Qualifications

A Ph.D. in atmospheric science, climate science, civil and environmental engineering, or a closely related field is required. Candidates with expertise in multi-hazard tropical cyclone research using numerical modeling are strongly preferred. Strong oral and written communication skills are essential, and experience with machine learning approaches is a beneficial asset.

Position Description

The initial appointment is for 12 months, with the potential for renewal for up to two years total. The start date is anticipated for January 2025, with some flexibility available.

Salary

This position offers an annual stipend of \$60,000, inclusive of a comprehensive benefits package.

Application Instruction

To apply, please send a single PDF by December 20, 2024, to Dr. Ali Sarhadi at sarhadi@gatech.edu, containing the following:

1. A cover letter detailing your interest in the position and qualifications.
2. A curriculum vitae (CV).
3. Contact information for 2-3 professional references.
4. (Optional) A 1-2 page statement describing your research interests.

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Prospective applicants are encouraged to contact Dr. Sarhadi with any questions prior to submitting an application.

About Georgia Tech

The Georgia Institute of Technology is a leading public research university located in Atlanta, a vibrant, culturally diverse city with robust economic sectors. Serving over 45,000 students, Georgia Tech is globally recognized for its top-tier programs in engineering, computing, sciences, business, design, and liberal arts. In the past year, Georgia Tech faculty secured over \$1.4 billion in research funding across disciplines, including artificial intelligence, energy sustainability, semiconductors, neuroscience, and national security. Georgia Tech ranks in the top 20 U.S. universities for research and development expenditures and is No. 1 among U.S. institutions without a medical school.

About the School of Earth and Atmospheric Sciences

The School of Earth and Atmospheric Sciences (EAS) at the Georgia Institute of Technology (GA Tech) is highly interdisciplinary and covers broadly all fields of Earth and space science. EAS hosts a range of undergraduate degrees, including B.S. programs in Atmospheric and Oceanic Sciences (AOS), Solid Earth and Planetary Sciences (SEP), and Environmental Science (ENVS), and hosts a distinct interdisciplinary Ph.D. program in Ocean Science and Engineering in collaboration with the School of Biological Sciences and Environmental Engineering. For more information about our School and academic programs, visit eas.gatech.edu.

The School of Earth and Atmospheric Sciences (EAS) includes 35 academic faculty members whose research areas cover the earth, atmospheric, oceanic, and planetary sciences as well as interdisciplinary climate and earth system research. EAS provides vibrant and inclusive learning experiences that prepare students to pioneer the advancement of knowledge in geosciences and become future leaders of academia, government, and industry.

Contact Information

Please reference Academickeys in your cover letter when

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applying for or inquiring about this job announcement.

Contact Dr. Ali Sarhadi
School of Earth and Atmospheric Sciences
Georgia Institute of Technology
Atlanta, GA

Contact E-mail sarhadi@gatech.edu