

Postdoctoral Research Associate in Probability Theory
and Stochastic Processes (multi-year position)
University of North Texas

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Posted Nov. 23, 2022, set to expire Mar. 24, 2023

Job Title	Postdoctoral Research Associate in Probability Theory and Stochastic Processes (multi-year position)
Department	Mechanical Engineering Department
Institution	University of North Texas Denton, Texas
Date Posted	Nov. 23, 2022
Application Deadline	Jan. 15, 2023
Position Start Date	Available Immediately
Job Categories	Post-Doc
Academic Field(s)	Mechanical Engineering
Apply By Email	hamid.sadat@unt.edu
Job Description	

Position Summary:

As a part of the project funded by ONR (Office of Naval Research), the Computational Fluid Dynamics (CFD) lab in the Mechanical Eng. Department at the University of North Texas (UNT), a Carnegie Tier One research institution, is seeking to hire a Postdoctoral Research Associate. The CFD lab develops numerical methods for deterministic and stochastic simulations in a wide range of areas including modeling and simulations of ocean vehicle dynamics in turbulent free surface flows in the presence of random waves. More information about the CFD lab and research activities can be found at:

<https://cfd.engineering.unt.edu/home>

https://www.youtube.com/channel/UC_ytqIWitu-yPsTzhMKnrddw/videos

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<https://www.researchgate.net/profile/Hamid-Sadat-Hosseini>

<https://scholar.google.com/citations?user=uGEZsTEAAAJ&hl=en>

The postdoctoral research associate will develop mathematical models for ocean vehicle responses in random waves using the concept of conditional stochastic processes. The position is for one year, but it can be extended to three years depending on the productivity and funding status. U.S. Citizenship is required.

Minimum qualification:

- Ph.D. in Mathematics, Mechanical Engineering, or related fields
- Solid background in probability theory as well as Gaussian and non-Gaussian stochastic processes

Preferred qualification:

- Prior experience in modeling and simulations
- Familiar with series approximating probability distribution functions
- Familiar with wave theories
- Graduate or post-graduate experience at a U.S. Academic Institution or National Laboratory

Job duties:

- Develop mathematical methods and validate them
- Model and simulate vehicle dynamics in random waves
- Post-process and analyze data
- Prepare manuscripts for publications in a timely manner and talks and posters for presentation at group meetings and conferences
- Assist with reporting research progress to funding agencies
- Keep up with historical and latest research data and publication
- Train students and other junior colleagues
- Stay up-to-date with all training, and federal, state, university, and department requirements

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Interested applicants should email their CVs to Dr. Sadat (hamid.sadat@unt.edu), the director of the CFD lab, by December 31st.

Contact Information

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

Contact Hamid Sadat
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University of North Texas
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