

Ph.D. Students in Nonlinear Dynamics, Vibrations, and  
Data-Driven Dynamics  
University of Memphis

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Posted Apr. 20, 2024, set to expire Aug. 20, 2024

<b>Job Title</b>	Ph.D. Students in Nonlinear Dynamics, Vibrations, and Data-Driven Dynamics
<b>Department</b>	Mechanical Engineering <a href="https://www.memphis.edu/me/">https://www.memphis.edu/me/</a>
<b>Institution</b>	University of Memphis Memphis, Tennessee
<b>Date Posted</b>	Apr. 20, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Spring/Fall 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Robotics Mechanical Engineering Electrical and/or Electronics

**Apply By Email**

**Job Description**

Dr. Vipin Agarwal, Assistant Professor in the Department of Mechanical Engineering, is actively seeking two highly motivated Ph.D. candidates to join his research team in the dynamic field of nonlinear phenomena, dynamics, vibrations, and controls. This exciting opportunity involves full immersion in cutting-edge research, with a primary focus on unraveling the complexities of nonlinear systems within various high-dimensional contexts. These contexts span both mechanical and non-mechanical domains and employ analytical, computational, and experimental methodologies.

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The second project within this research opportunity will require a strong emphasis on data-driven nonlinear dynamics for high-dimensional systems. The objective of this research is to enable early detection and control of undesired dynamical states by applying cutting-edge machine learning and AI techniques.

As a Ph.D. candidate in our program, you will have the privilege of working on innovative projects, contributing to the forefront of engineering and scientific knowledge, and cultivating expertise in this dynamic and multidisciplinary field.

If you are passionate about tackling the challenges posed by nonlinear phenomena and are enthusiastic about making substantial contributions to this exciting field, we encourage you to reach out to Dr. Vipin Agarwal at [vipin.a@memphis.edu](mailto:vipin.a@memphis.edu). To apply, please provide your CV.

We are actively seeking a candidate who is ready to commence their Ph.D. studies either in Summer 2024 or Fall 2024. Individuals with prior degrees in Mechanical Engineering, Electrical Engineering, Applied Mathematics, Robotics, or related fields are particularly encouraged to apply.

### **EEO/AA Policy**

The University of Memphis does not discriminate against students, employees, or applicants for admission or employment on the basis of race, color, religion, creed, national origin, sex, sexual orientation, gender identity/expression, disability, age, status as a protected veteran, genetic information or any other legally protected class with respect to all employment, programs and activities sponsored by the University of Memphis. The following position has been designated to handle inquiries regarding non-discrimination and anti-harassment policies: Director for Institutional Equity/Title VI Coordinator, [ois@memphis.edu](mailto:ois@memphis.edu), 156 Administration Building, 901.678.2713. The University of Memphis policy on nondiscrimination can be found at <https://memphis.policytech.com/dotNet/documents/?docid=430>. An Equal Opportunity/Affirmative Action University.

### **Contact Information**

Please reference Academickeys in your cover letter when

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applying for or inquiring about this job announcement.

**Contact** Vipin Agarwal  
Department of Mechanical Engineering  
University of Memphis  
Memphis, TN 38152

**Contact E-mail** vipin.a@memphis.edu