PhD Positions Announced in Machine Learning, Nonlinear Dynamics, and Control (Spring or Fall 2026)
Colorado State University

Job Title	PhD Positions Announced in Machine Learning, Nonlinear Dynamics, and Control (Spring or Fall 2026)
Department	Electrical and Computer Engineering
Institution	Colorado State University Fort Collins, Colorado
Date Posted	Aug. 5, 2025
Application Deadline	Open until filled
Position Start Date	Spring or Fall 2026
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Bioengineering (all Bio-related fields) Engineering - Other
Job Website	https://www.engr.colostate.edu/ece/people/shirin-panahi/
Apply By Email	
Job Description	

PhD Positions in Machine Learning, Nonlinear Dynamics, and Control (Spring or Fall 2026**)**

Applications are invited for **two PhD positions in Electrical Engineering** at **Colorado State University** in the interdisciplinary areas of **Machine Learning (ML) in Nonlinear Dynamics** and **Control** for the start date of**Spring or Fall 2026**. The Research areas are:

- **AI and ML in Nonlinear Dynamical Systems**
  Data-driven models will be developed for tasks such as time-series prediction and the forecasting

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of extreme events in complex and dynamical systems.

- **Hybrid Control Systems**
  Control strategies will be explored that combine machine learning methods with classical control theory to enhance adaptability, robustness, and system performance.
- **Collective Behavior in Complex Dynamical Networks**
  Emergent phenomena such as synchronization and pattern formation will be studied in large-scale networks, with emphasis placed on applications in **neuroscience** (e.g., brain dynamics) and **engineering** (e.g., power and sensor networks).

Highly motivated applicants with experience in control and nonlinear dynamics and a strong background in mathematics are encouraged to apply. Applicants should have B.Sc. and M.Sc. degrees in Electrical Engineering or related fields. For qualified PhD candidates, the stipend and tuition will be provided. Continuation of financial support is contingent upon satisfactory academic/research performance and availability of funds.

To be considered, applicants are asked to submit the following documents:

- **Curriculum Vitae (CV)**
- **Academic transcripts**
- **Contact information for two academic references**

All application materials should be sent to Dr. Shirin Panahi:
S.Panahi@colostate.eduwith the email subject line:**Prospective PhD Student**.

In your email, please briefly describe your relevant academic background, indicate which of the listed research areas you are most interested in, and your earliest availability to start.

Contact Information

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

Contact Dr. Shirin Panahi
Electrical and Computer Engineering
Colorado State University

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Fort Collins, CO

Contact E-mail S.Panahi@colostate.edu