

PhD Student Positions (Graduate Research Assistants) – Fall 2027

Department of Scientific Computing
Florida State University

Overview

The research group of Prof. Milinda Fernando in the Department of Scientific Computing at Florida State University (FSU) is recruiting PhD students to begin as Graduate Research Assistants (GRAs) in Fall 2027. The research focuses on computational science and on developing high-performance computing algorithms for scientific applications. Topics of special interest include, but are not limited to: HPC for scientific applications, inverse problems, PDE-constrained optimization, scientific machine learning, computational plasma physics, and numerical relativity.

Qualifications

- **Bachelor’s Degree [Required]:** Computational/Computer Science, Engineering, or a related field (must be completed by August 2027; students in their final year in their undergraduate program are encouraged to apply).
- **Programming Skills [Required]:** Demonstrated scientific programming skills with scripting (*e.g.*, Python, Julia) **or** compiled languages (*e.g.*, C/C++).
- **Mathematical Foundation [Preferred]:** Background in numerical methods, applied mathematics, or computational mathematics.
- **Domain Experience [Preferred]:** Past experience with numerical solver development or closely related applications.

How to Apply

Prospective students should complete the following steps before the end of **December 2026**:

1. Read the application instructions at <https://www.sc.fsu.edu/graduate/application>.
2. Submit an official online application through the FSU Office of Admissions portal at <https://admissions.fsu.edu/gradapp>.
3. Email any questions to wfernando@fsu.edu with the subject line “GRA Fall 2027”.

About the Department of Scientific Computing and FSU

Florida State University’s Department of Scientific Computing serves as an interdisciplinary hub bridging applied mathematics, computer science, and domain engineering to advance high-performance computing and algorithmic design. As a top-tier R1 research institution, FSU provides high-performance computing clusters, the specialized Computational Intelligence Laboratory, and collaborative ties with state-of-the-art facilities like the National High Magnetic Field Laboratory. The department’s graduate programs emphasize developing scalable algorithms, mathematical modeling, and high-performance numerical simulations across diverse applications—ranging from computational fluid dynamics and relativity to biophysics and machine learning—preparing researchers to tackle multi-scale scientific problems.