

Fully funded Ph.D. Student Position at Dartmouth Engineering

Purpose of position

The Ph.D. student will conduct research under the supervision of Professor Wesley Marrero in the Thayer School of Engineering at Dartmouth. Contingent on the student's interest, they could collaborate with other researchers within Thayer School and Dartmouth College as well as with the research groups Dr. Marrero is affiliated with at the University of Michigan and Harvard Medical School. The successful candidate will help in the design and application of data-driven decision support models that consider the challenges associated with their implementation in practice.

Start Term

The preferred start term is Winter 2023, but Fall 2022 or Spring 2023 may also be possible.

Required qualifications

Bachelor's degree in mathematics, operations research, statistics, industrial and systems engineering, or a closely related field by the start term.

Skills, knowledge, and abilities

- Excellent written and spoken communication skills, and comfort working both collaboratively and independently.
- Experience with statistical software and programming languages (e.g., R, Python, Julia).
- Candidates with non-academic work experience, with nontraditional academic backgrounds, or from members of historically underrepresented groups in science and engineering are encouraged to apply.

Preferred qualifications

- Master's degree in mathematics, operations research, statistics, industrial and systems engineering, or a closely related field by the start term.
- Experience executing, presenting, and publishing research.
- Experience working with large data sources.

Key accountabilities (percentage of the time)

- Complete relevant course work (25-30%)
- Help in the design and application of data-driven decision support models that consider the challenges associated with their implementation in practice (35-40%)
- Collaborate with other faculty and researchers at Thayer School, Dartmouth College, the Industrial and Operations Engineering Department at the University of Michigan, the UM School of Public Health, Michigan Medicine, and Harvard Medical School, among others (10%)
- Co-author research findings (20%)
- Present findings at conferences (5%)

Required Documents

1. Curriculum Vitae (including undergraduate and graduate GPA along with GRE and TOEFL scores, if applicable)
2. Statement of purpose (at most 3 pages)

How to Apply

Send your CV and statement of purpose to Dr. Wesley Marrero at wesley.marrero@dartmouth.edu (subject line: Ph.D. Student Position). Include your preferred start term. Feel free to ask any questions.

Application review date

Review of applications will begin immediately and continue until the position is filled.