Job Title: Graduate Professional Studies, Adjunct Faculty
Course: Data Intensive Software Systems for Robotics
Division: Rabb School, Graduate Professional Studies (GPS)
Location: Online

About the position and course:
Brandeis University’s Graduate Professional Studies (GPS) is looking for an industry leader to develop and teach in our new Robotic Software Engineering Master’s Program. Brandeis University is consistently ranked among the nation’s top universities, and our online courses are developed using best practices in online learning.

RBOT 215: Data Intensive Software Systems for Robotics is an elective course that will focus on the tools of the trade required to deal with large quantities of data from sensors and unstructured data streams. Students will learn the common data science tools used in the robotics industry. Course outcomes include:

- Understand Big data technologies and stacks: Databases (NoSql), Mapreduce, Hadoop, Pandas, Pipelines (e.g Spark), Graph Analytics, Visualization(e.g, Plot.ly)
- Understand elements of dealing with Big data using cloud computing

Qualified candidates will have Subject Matter Qualifications in the following areas:

Required:

- Current active employment in the Robotics Software Engineering field, or related industry
- Minimum of 5 - 10 years in big data, cloud computing and high performance computing
- Minimum of 5 - 10 years in software engineering in AI/Robotics field
- Solid understanding of popular programming languages (C++, Python) required
- Masters Degree

Preferred:

- Teaching experience; online teaching or learning experience

General responsibilities include:

- For new courses requiring development:
  - Design a syllabus following program chair guidance and the syllabus template
  - Create content that aligns with course outcomes and offers the author’s experiences and perspectives on key points
- For all courses - develop and deliver the course according to our teaching standards, which include actively facilitating online discussions, providing relevant and timely feedback on student work, reporting grades, and discussing student issues with staff
- Create or refine and facilitate the course site in the Moodle learning management system

General skill requirements include:

- Strong interpersonal skills when relating to students
- The ability to communicate effectively in writing, including conveying complex information and promoting in-depth engagement on course topics
- The ability to devote adequate time to courses, including responding to students and providing meaningful feedback in a timely manner
About the Masters in Robotic Software Engineering Program:
From self-driving cars to farming to advances in healthcare and caretaking, nearly every global industry will be impacted by autonomous robots and the software that drives them. The Masters in Robotic Software Engineering will allow students to develop an advanced understanding of robotic engineering concepts and learn from leading software engineers and roboticists.

All GPS Masters courses are 10-weeks long and taught asynchronously in the online learning environment with no set days or times for interaction.

About GPS Faculty:
GPS Faculty instructors are active practitioners in the industries that align with our programs and have the professional expertise to bring to course discussions and threads. Instructors are part time and work fully online, with no requirement to appear on campus. Our faculty have earned at least a master's degree with many holding terminal academic degrees and industry-specific credentials. Previous experience teaching online is not required; GPS offers a comprehensive training program for qualified applicants.

How to apply:
GPS welcomes applications for its adjunct faculty pool on an ongoing basis. The application process consists of the online application and, if subject matter qualifications are met, a series of interviews at the discretion of the Program Chair and Director of Program Development. Complete your application online.