Brandeis University’s Graduate Professional Studies (GPS) is looking for an industry leader to develop and teach in our Bioinformatics 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. Information about Brandeis University and Graduate Professional Studies can be found online at.

About the position and course:
We are currently looking to hire an adjunct instructor for RBIF 100: Bioinformatics Scripting and Python Programming. The instructor for RBIF 100 will develop and teach the course designing a syllabus and creating content that aligns with course outcomes.

RBIF 100 is a core course serving as a high-content introduction to scripting and programming with applications in bioinformatics. Covering the fundamentals of working with Linux systems, using bioinformatics tools, and manipulating biological data files, the course will focus on scripting with Bash and Python. Other course topics include: how to interact programmatically with SQL databases and RESTful web services, and how to work with distributed compute systems to perform large calculations.

At the end of the course, students will be able to:
- Work comfortably with GNU/Linux command-line tools
- Develop and/or modify existing scripts in Bash or Python to solve bioinformatics problems
- Manipulate common biological data structures
- Interact programmatically with public repositories such as Ensembl
- Script compute-intensive bioinformatics tasks.

Qualified candidates will have Subject Matter Qualifications in the following areas:
Required:
- Current active employment in the Bioinformatics field, or related industry
- Minimum of 5 years experience using Linux-based shell scripting (csh, bash), Python programming, and SQL for bioinformatics sequence analysis
- Minimum of 1 year of experience with distributed computing systems and cloud computing resources such as AWS and Google Cloud
- Strong demonstrated programming and scripting experience, as demonstrated by peer-reviewed publications and/or Github contributions
- Minimum of a Masters degree

Preferred:
- Previous experience teaching a college level course or conducting professional training

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 Bioinformatics:**

As bioinformatics becomes an integral part of the research processes, biomedical industries seek to make use of vast amounts of genomic data to produce more complex and accurate biological models. Biotechnology and pharmaceutical organizations are relying more and more on bioinformatics’ mathematical, statistical and computational methods.

The MS in Bioinformatics program equips students to be able provide insight into complex biological systems through data synthesis and application of a wide range of computational biology approaches. They are able engage in productive bioinformatic research and effectively communicate research projects and findings to multidisciplinary project teams.

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 at [http://www.brandeis.edu/gps/community/apply-to-teach.html](http://www.brandeis.edu/gps/community/apply-to-teach.html).