

# SOFTWARE ENGINEER

## Posting Details

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<b>Reference Number</b>	40-20862
<b>Posted Job Title</b>	SOFTWARE ENGINEER
<b>School Name</b>	Perelman School of Medicine
<b>Org</b>	PH-Pharmacology
<b>Posted to the Web</b>	08/18/2015
<b>Posted Job/Salary Grade</b>	D
<b>Employment Type</b>	Exempt
<b>Hours</b>	40.00
<b>Position Type</b>	Full Time
<b>Position Schedule</b>	9-5
<b>Months</b>	12
<b>Position Length</b>	Contingent Upon Funding
<b>Position End Date</b>	

### University Overview

The University of Pennsylvania, the largest private employer in Philadelphia, is a world-renowned leader in education, research, and innovation. This historic, Ivy League school consistently ranks among the top 10 universities in the annual U.S. News & World Report survey. Penn has 12 highly-regarded schools that provide opportunities for undergraduate, graduate and continuing education, all influenced by Penn's distinctive interdisciplinary approach to scholarship and learning.

Penn offers a unique working environment within the city of Philadelphia. The University is situated on a beautiful urban campus, with easy access to a range of educational, cultural, and recreational activities. With its historical significance and landmarks, lively cultural offerings, and wide variety of atmospheres, Philadelphia is the perfect place to call home for work and play.

The University offers a competitive benefits package that includes excellent healthcare and tuition benefits for employees and their families, generous retirement benefits, a wide variety of professional development opportunities, supportive work and family benefits, a wealth of health and wellness programs and resources, and much more.

### Duties

The Greene Laboratory at Penn seeks a Software Engineer to work under the direction of the lab director to support analysis large scale genomic datasets and the development of web servers that make these capabilities available to biologists with limited computational expertise. The types of responsibilities will include:

- \* Analyze next-generation sequencing data sets using vendor-supplied, and open source programs
- \* Design, develop, and maintain bioinformatics tools and pipelines that assist in the above
- \* Design, develop, and maintain web servers for other users to access data and bioinformatics tools
- \* Manage experimental annotations and analysis results for above
- \* Participate in code review.

Experience with any of the above will be looked upon favorably, but is not necessary. On the job training will be provided in areas where the successful candidate lacks experience.

### Qualifications

A Bachelor's Degree (preferably in Computer Science or related field) and 3 years to 5 years of experience or equivalent combination of education and experience is required. Also required: Substantial expertise designing, developing, and delivering analytical software and/or web servers; Experience with unit testing, version control, and other aspects of continuous integration; Ability to work productively and communicate effectively with people of varying technical backgrounds; Understanding of software architecture, OO principles, and design patterns; Experience with relational databases and web-development; Good work ethic and self-motivation; Proven problem solving abilities; Preferred: Project lead for a project from inception to delivery and maintenance; Familiarity with genomics and bioinformatics concepts; Expertise in Python, Javascript and familiarity with R; Significant experience with D3, Django and AngularJS; Track record of developing web-based analytics systems for users with little computational experience; Open source software repository or contributions are a plus.

### Affirmative Action Statement

Penn adheres to a policy that prohibits discrimination on the basis of race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status, or any other legally protected class.

### Special Requirements

Background Check Required

### Quick Link

<http://jobs.hr.upenn.edu:80/postings/12730>

## Posting Supplemental Questions

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Required fields are indicated with an asterisk (\*).

1. \* How did you hear about this employment opportunity?
  - Jobs@Penn
  - Contacted by a Penn Recruiter
  - Referred by a Penn Employee
  - Referred by a friend or family member
  - Higher Education Recruitment Consortium (HERC)
  - Inside Higher Ed
  - Indeed.com
  - Other Internet Advertisement
  - LinkedIn
  - Twitter
  - Other Social Media Site
  - Professional Affiliation/Trade Website
  - Diversity Association/Publication Website
  - Heard about it at a conference or career fair
  - Unique Advantage
  - Recruitment and/or staffing agency
2. \* What is your highest level of education?
  - Less than high school education
  - High School Diploma or GED
  - Vocational or Technical School
  - Associate's Degree or Two Year College
  - Bachelor's Degree
  - Master's Degree
  - PHD/MD/JD or equivalent doctoral degree
3. \* How many years of experience do you have related to this position?
  - 0 to 1 Year
  - 1 to 2 Years
  - 2 to 3 Years

- 3 to 5 Years
  - 5 to 7 Years
  - 7 to 10 Years
  - Over 10 Years
4. \* A background check may be required for this position. Do you agree to allow a background check to be performed as a condition of employment?
    - Yes
    - No
  5. \* Do you have expertise with designing, developing, and delivering analytical software and/or web servers?
    - Yes
    - No
  6. \* Do you have experience with unit testing, version control, and other aspects of continuous integration?
    - Yes
    - No
  7. \* Do you have experience understanding software architecture, OO principles, and design patterns?
    - Yes
    - No
  8. \* Do you have experience with relational databases and web-development?
    - Yes
    - No
  9. \* Do you have expertise in Python & Javascript?
    - Yes
    - No
  10. \* Do you have significant experience with D3, Django and AngularJS?
    - Yes
    - No

## Applicant Documents

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### Required Documents

1. Resume

### Optional Documents

1. Cover Letter