NOW HIRING: Computer Programming Instructor

The UW GenOM Project is seeking (1) Java Instructor for nine weeks starting June 20, 2016 and ending August 18, 2016.

The UW GenOM Project sponsors three programs for incoming freshmen and high school students; GenOM ALVA and ALVA Clean Energy Engineering (incoming freshmen) and ALVA Big Data for high school rising seniors. All three are 9-week residential summer internship programs that provide academic support, hands-on research experience, and professional development. The three programs are blended into one residential program, with students participating in different activities (particularly research), depending on the program.

This particular position is for the ALVA Big Data high school rising seniors. The purpose of this position is to provide leadership in computer programming instruction and curriculum design to prepare rising high school seniors for careers in the growing fields of Big Data and Data Science.

The curriculum focuses on learning programming, and will help students be competitive applicants to the University of Washington in STEM fields, and for scholarships for college.

Position Dimension and Impact to the University:
- This position supports improved computer programming skills of pre-college students who will ideally be eligible for various diversity and academic programs within STEM fields.
- This position will directly impact the University of Washington’s mission to increase diversity, particularly to increase the numbers of underrepresented minority and women students graduating with STEM degrees.
- This position may also contribute to general student supervision during program activities, and/or contribute to additional STEM related workshops outside of the mathematics classroom and course work.

Duties & Responsibilities:

Classroom Instruction and Management – 70%
- Lead a computer programming workshop for ~6 students.
- Coordinate with research mentors for the high school students on what programming skills are most useful.
- 1.5 hours of daily instructional activities and 3 hours daily of preparation, evaluation and grading.

Student Evaluation and Curriculum Design – 25 %
- The instructor will oversee skills evaluation of the ~6 rising high school seniors. The instructor will also design and structure curriculum and daily lesson plans accordingly.
- The instructor will design testing tools, guidelines, and goals for the observation of student progress; may use existing models and templates.
- The instructor will supervise grading and solicit program staff for observation of student progress.
- Independent time for grading and curriculum design.

Other – 5%
- Other duties as assigned.

Qualifications:
- B.S. or M.S. in a STEM field or...be undergraduate seniors/5th year students who have been a teaching assistant for CSE 142/143.
- Must be proficient in Java and Python, and be familiar with UW problem solving teaching methodologies.
- Educational background in math and/or computer science is preferred.
- Would prefer 2 years of previous teaching experience, ideally at the college freshman level.
- Experience with and understanding of the challenges faced by underrepresented minority and female students in STEM fields.
- Appointment to this position is contingent upon obtaining satisfactory results from a criminal background check

Compensation:
- Hourly wage based upon experience and qualifications.

Please send a cover letter, resume and names of three references to Gregory Diggs at diggsyng@uw.edu by the end of the day on Friday, March 11th, 2016.