

NOW HIRING: Lab Techniques Instructors

The UW GenOM Project is seeking (2) **Laboratory Techniques Instructors starting June 20 - June 27, 2017.**

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

The GenOM ALVA students have an intensive laboratory techniques course during the first two weeks of the program. The purpose of these positions is to provide instructional leadership in the use of laboratory tools and techniques using DNA to give 14-16 incoming UW STEM freshmen experience in advanced laboratory techniques in genomics and biology.

The curriculum focuses on topics such as DNA structure and function, DNA extraction, restriction enzyme analysis, polymerase chain reaction (PCR), and gel electrophoresis. There will be an emphasis on developing laboratory skills such as accurate pipetting, solution making, dilutions, using sterile techniques, and keeping a meticulous scientific notebook.

Position Dimension and Impact to the University:

- This position supports improved advanced laboratory techniques in genomics for incoming freshmen who will ideally be eligible for various diversity and academic programs within STEM fields.
- This position will directly impact the UW GenOM Project'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 in other laboratory based classrooms and course work.

Duties & Responsibilities:

Classroom Instruction and Management – 70%

- The instructors will team lead daily lectures related to DNA and genetics.
- Facilitate 1-2 labs every session for 14-16 students.
- 6 hours of daily instructional activities and additional time for preparation, evaluation and grading.
*** Planning of curriculum and ordering of supplies will need to begin prior to the start of the program.

Student Evaluation and Curriculum Design – 25 %

- Oversee skills evaluation of GenOM ALVA students. The instructor will also design and structure curriculum and daily lesson plans accordingly.
- Design testing tools, guidelines, and goals to measure student progress; may use existing models and templates.
- Supervise grading and solicit program staff for observation of student progress.
- Responsible for ordering supplies, and maintaining laboratory safety (including training) and cleanliness.
- Independent time for grading and curriculum design.

Other – 5%

- Other duties as assigned.

Qualifications:

- Required: Completion of Intro to Bio Series (180/200/220); prefer completion of a BS or MS in a life sciences field.
- Preferred 2 years of previous teaching experience, ideally at the freshman level and/or prior participation in GenOM ALVA Laboratory Techniques Course.
- 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:

- Stipend of \$1500

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 10th, 2017.