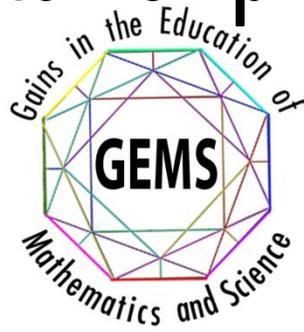


Summer Internship Opportunity



GEMS Near-Peer Mentor Job Description

U.S. Army Medical Research and Materiel Command (USAMRMC) Fort Detrick Gains in the Education of Mathematics and Sciences (GEMS) near-peer mentor is responsible for guiding elementary, middle, and high school student interns through science and engineering experiments. The goal of the GEMS program is to broaden students' interest in Science, Technology, Engineering, and Mathematics (STEM) and to inspire them to consider careers in these fields. The mentor will complete training prior to the start of the program. The training session will teach the mentor how to relate to students, present experiments, and practice the planned curriculum. Near Peer mentors are required to work in a team atmosphere. College students are eligible to apply for a near-peer mentor internship position.

Responsibilities include:

- Supervising students
- Preparing laboratory materials
- Learning protocols and procedures
- Work individually with high school leaders (assistant near-peer mentors) and guide interns to advanced classes and assist with college questions
- Guiding students through course material
- Helping students foster positive attitudes toward STEM education
- Maintaining ethical behavior at all times, acting as a role model and mentor for the GEMS student interns

Benefits

- Network with scientists and professionals from USAMRMC laboratories
- Work on advanced-level science experiments and engineering projects
- Mentor, teach, and influence America's future
- Enhance ability to pursue possible STEM career pathways
- Selection into a very competitive STEM program
- Competitive pay

Dates, Times, and Locations

USAMRMC Fort Detrick GEMS Program is located in Frederick County at Hood College. Training dates are subject to change.

Training: June 16th-20th at Hood College (401 Rosemont Ave Fredrick, MD 21701)

July 14th-18th at Hood College (401 Rosemont Ave Fredrick, MD 21701)

Program: June 23-26 ; June 30-July 3 ; July 7-10 ; July 21-24 ; July 28-31; August 4-7

Student Interns participate in the program for 4 days. Near-peer mentor's internship is 5 days a week.

Wrap-up: August 11-15

Grant Opportunity

Near Peer Mentors pay is based on completed semester hours.



2014 GEMS Near-Peer Mentor Application

Mentor Information

First Name:	Last Name:	Middle Initial:
Address:	City:	State:
Zip Code:	Home Phone:	Cell Phone:
Email Address:		
Name of University or College Currently Attending:		Year/ Credit Hours:

Near Peer Mentors that make it through the interview process are selected to be a mentor for a specific GEMS class / series. Please select the two classes in which you are most interested in being a mentor in. (This will most likely depend on your major and skill set)

Environmental- Student interns will become defenders of the environment as they use and make alternative sources of energy, discover how sensitive organisms are to their environments, conduct water quality and soil tests, and learn about renewable and nonrenewable resources.

CSI- Student interns will be detectives using blood typing, fingerprinting, lie detectors, bone identification, and DNA to solve a crime.

Intermediate- Student interns will be exposed to several molecular biology techniques currently used in modern laboratories. They will have the opportunity to catch insects and extract their DNA to see if they contain a certain type of bacteria, Wolbachia that can change the insects' gender. Student interns will also explore food science and rockets.

Advanced- Student interns will be challenged to isolate genomic DNA, use PCR techniques to amplify two specific genes, and then digest those PCR products with restriction enzymes. In addition, they will explore anatomy by dissection, learn suturing, and participate in team engineering challenges

Battlebots- Student interns who participate in Battlebots will build and drive LEGO® remote-controlled robots and learn about gears, torque, and motors. They will be challenged to complete the dreaded obstacle course and pull the most amount of weight. Their final challenge is to battle another bot in the GEMS arena

Robotics- Student interns will program a bot that can use touch and light sensors to maneuver and conquer different tasks. They will be tasked to program a bot that can follow a line, perform a search and rescue task, and navigate a maze with only touch sensors.

GetGame- Student interns who participate in GetGame will design and build their own video game using Multimedia Fusion2®. They will be challenged to create a platform game, where students program characters and a two-dimensional obstacle course

The mentor is required to attach to the application package the following:

1. Essay explaining why you want to be a mentor for the GEMS program
2. Current transcript (official or unofficial)
3. Two letters of recommendation from a teacher/professor, school, principal/administrator, and/or previous employer.

Complete applications are due by February 14th. Notifications will be by email and interviews will follow shortly. Please mail all required documents together.

Applications should be submitted to:

ATTN: GEMS Program Coordinator
Lauren Beeson
504 Scott Street, MCMR-SP
Fort Detrick, MD 21702

If you have any questions about the GEMS program or would like to receive a digital copy of the application contact Lauren Beeson, 301-619-7942, USArmy.Detrick.MEDCOM-USAMRMC.Other.Educational-Outreach@mail.mil

GEMS Mentor Essay

Describe why you want to be a mentor for the GEMS program. Hand-write or type your answer.