

Gains in the Education of Mathematics and Science (GEMS) is an extracurricular science education program that enables students to experience science in a real laboratory setting during the summer.

Highlights

Basic Eligibility Requirements

- U.S. Citizenship
- Near-Peer Mentors must be college undergraduates

Goal

- To broaden students' interest in science, technology, engineering, and mathematics and to inspire them to consider careers in these fields.

Length of Program

- Program hours for student interns are weekdays from 8:30 AM until approximately 3:00 PM daily for a period of 4 days. Near-Peer Mentors and Resource Teachers are expected to be available to work from 8:00 AM until 4:00 PM weekly.

Curriculum

- The program is based on a multidisciplinary educational curriculum and focused on age- and grade-appropriate hands-on activities in areas such as science, engineering, robotics, mathematics, computational sciences, microbiology, biomedical sciences, chemistry, and biology.

Leadership

- GEMS Program Administrator
- Certified Teacher
- Near-Peer Mentors (college students)

How to Apply

- Resource Teacher and Near-Peer Mentor applications for the USAMRMC GEMS program vary by location. Please check the web site regularly for submission dates.
- Apply online at <http://www.usaeop.com/>.

2013

Program dates and length vary by site and location.



For Additional Information Contact:

E-mail: usamrmceducationaloutreach@amedd.army.mil

Phone: 301-619-2362

Fax: 301-619-7054

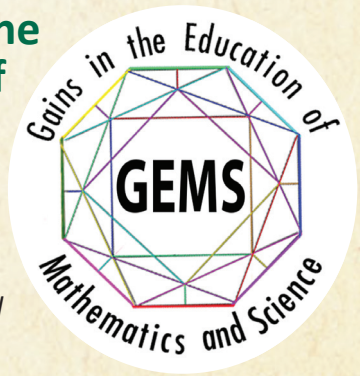
Address:
ATTN: GEMS Program Coordinator
504 Scott Street, MCMR-SP
Fort Detrick, MD 21702



GEMS

Gains in the Education of Mathematics and Science

Sponsored by the
U.S. Army Medical
Research and
Materiel Command



NEAR-PEER MENTOR AND RESOURCE TEACHER BROCHURE

LOOKING FOR AN AWESOME GRANT OPPORTUNITY?

Do you have what it takes to be a Near-Peer Mentor?

Are you:

- An undergraduate college student in a STEM (science, technology, engineering, and mathematics) or science education field of study?
- Interested in teaching, mentoring, or being an academic researcher?
- Committed to working with a team?

Then join GEMS this summer as a Near-Peer Mentor.

Near-Peer Mentors guide middle school and high school student interns through science and engineering experiments.

Responsibilities include:

- Supervising students
- Preparing laboratory materials
- 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

For more information about U.S. Army Medical Research and Materiel Command research laboratories, please visit their web sites:

USAARL: <http://www.usaarl.army.mil>
Fort Rucker, Alabama

USAISR: <http://www.usaisr.amedd.army.mil>
Fort Sam Houston, Texas

USAMRICD: <http://chemdef.apgea.army.mil>
Aberdeen Proving Ground, Maryland

USAMRIID: <http://www.usamriid.army.mil>
Fort Detrick, Maryland (GEMS programs held in Frederick and Hagerstown, Maryland)

USARIEM: <http://www.usariem.army.mil>
Natick, Massachusetts

WRAIR: <http://www.wrair.army.mil>
Silver Spring, Maryland

Do you have what it takes to be a Resource Teacher?

Resource Teachers are individuals who demonstrate and have an interest in science, continuing education, and inquiry-based experiments. Resource Teachers are typically licensed teachers within a public/state system, but this is not a requirement.

Responsibilities include:

- Providing support and guidance for all experiments during the GEMS program
- Learning all new laboratory protocols
- Supervising and maintaining the laboratory on a daily basis
- Supervising and interacting with student interns on a daily basis
- Scheduling and implementing daily experiments
- Teaching Near-Peer Mentors experiments, skills, and techniques
- Mentoring and supervising Near-Peer Mentors
- Assisting with curriculum as needed

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
- Receive professional development credits toward yearly teacher assessment
- Competitive pay

