



Engineer Research and Development Center-
Construction Engineering Research Laboratory

2902 Newmark Drive, Champaign, IL 61822

2014 Day Camp Dates:
GEMS I - June 16 - 20, 7&8 Grade
GEMS II - July 14 - 18, 9-11 Grade



GEMS Day Camp



Looking for a fun-filled educational activity during the summer? Look no further... **GEMS** Camp (**G**ains in the **E**ducation of **M**athematics and **S**cience) will be held in Champaign, Illinois this summer.

This GEMS Programs gives students entering grades 7 or 8 and 9 through 11 an opportunity to intern at an Army laboratory and be exposed to career opportunities in the areas of math and science. The program targets students who are interested in science and math careers but who need motivation or information to pursue this goal. Participating students will receive an educational stipend.

GEMS Goals:

- Cultivate curiosity.
- Encourage students to take advanced courses.
- Enroll participants for rigorous and competitive scientific scholarship.
- Offer opportunities for student interns to conduct research in a working laboratory.
- Provide active learning experiments that merge concept with technical skills.
- Challenge students with advanced protocols.

Application period: March 1, 2014 to April 15, 2014

Applications submitted BEFORE or AFTER the registration period will not be considered.

Apply On-line at the Army Education Outreach Program website:

<https://www.usaeop.com/application/student1.aspx>

Must submit an essay (up to 500 words) as part of their application.

**Engineer Research and Development Center –
Construction Engineering Researcher Laboratory**

John D. Mudrick
john.d.mudrick@usace.army.mil

The Construction Engineering Research Laboratory is located east of Mattis Ave. at the corner of Interstate Dr. and Newmark Dr. in the Industrial Park area.

Frequently Asked Questions

What is GEMS?

The Gains in Education of Mathematics and Sciences (GEMS) program promotes the education of regional youth in Science, Technology, Engineering and Math (STEM). GEMS is offered by the Army Educational Outreach Program and mainly funded by the Department of Defense to encourage students to enter into STEM related careers. The Construction Engineering Research Laboratory (CERL) provides a summer program under the GEMS umbrella. GEMS is also available at other locations around the United States of America.

What can I expect as a participant of GEMS at CERL?

As an interested and enthusiastic middle school or high school student in the CERL GEMS Program, you will be exposed to a genuine, hands-on laboratory experience. GEMS will also help you in STEM related courses at school. The program offered at CERL is led by "near-peer" mentors who develop, explain, and execute each teaching module with you.

What is a "near-peer" mentor?

Near-peer mentors are college students and recent graduates from related fields of academia. These mentors are closer in age than the traditional teacher and create a more relaxed atmosphere of learning. The responsibilities of a near-peer are to be role models to the students, promote high-level science and math classes, and act as expert resources concerning college life and career pathways. Near-peers are selected for their technical experience and attitude. Their inclusion is integral in enhancing each and every GEMS student's interest and achievement.

What is a teaching module?

Our teaching modules are interdisciplinary, inquiry based, hands-on learning experiments that explore the various fields of STEM academia. We utilize real-world examples and merge theory with practice to cultivate a broad and well rounded understanding within each student. We require that every teaching module be fun and engaging.

Where is the program located?

The program will be at the Construction Engineering Research Laboratory, 2902 Newmark Drive, Champaign, IL. The modules will be taught in a laboratory or training room setting.

Is there a fee to participate?

The program does not have a fee and in fact, offers an educational stipend for students. This stipend is not a paycheck and is only available upon completion of the entire program.

What are the dates and times that the program starts and ends?

Please plan to arrive between 8:15 a.m. and 8:30 am. Each day is split into a morning and an afternoon session with various breaks throughout the day. We break for lunch midday and require that students bring a packed lunch. Dismissal is at 3:30pm. Please plan to pick up your child by 3:45 p.m.

When can I apply?

Application Window: March 1, 2014 to April 15, 2014

All applicants are considered and placed, as best as possible.

Notification of placement is sent out on May 6, 2014 by email.

No paper forms will be sent out unless special request is made.

How do I apply?

The GEMS office is working hard to make the application process quick and easy. We encourage all interested students to apply. The application form can be accessed on the AEOP website by clicking the "Apply Now" button on the left margin. Applicants must submit an essay (up to 500 words) as part of their application. Link for essay topic and the application guidance:
<https://www.usaeop.com/application/student1.aspx>