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What will your next STEM experience be? Choose today!

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March 1, 2016

Another exciting year of STEM experiences with the Army Educational Outreach Program awaits you!

Whether you have participated in the past or are currently enrolled, your next hands-on, real-life science, technology, engineering, and math (STEM) experience is just around the corner!

In this newsletter you will find opportunities for students at all grade levels. Check them out, apply today and share these great resources with a friend.

If you have any questions, please reach out to Dr. Andrea Milner at alumni@usaeop.com.

EXPERIENTIAL PROGRAMS	FOR GRADES
<p>Camp Invention (Summer enrichment experience) http://www.usaeop.com/programs/stem-enrichment-activities/camp-invention/ Camp Invention is a summer STEM enrichment experience featuring collaborative learning opportunities led and administered by local teachers. Participants engage in fun, hands-on activities using a science-based, age-appropriate curriculum and a problem-based learning approach to inspire the pursuit of STEM. The Army provides engagement scholarships for students that are nominated by teachers in areas where the Army has research laboratories. Students are encouraged to continue direct engagement with the research facilities through GEMS.</p>	<p>K 1 2 3 4 5</p>

Gains in the Education of Mathematics and Science (GEMS)

[Summer enrichment program – Applications accepted through March 14, 2016]

<http://www.usaeop.com/programs/stem-enrichment-activities/gems/>

GEMS is a summer STEM education program that provides students and teachers with hands-on learning experiences in a professional laboratory environment working alongside high-school and college-aged mentors, and senior Army scientists and engineers. One- to four-week sessions are hosted at Army laboratories and educational institutions and range from beginning to advanced activities.

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eCybermission [Competition – Applications Accepted Now]

<https://www.ecybermission.com>

eCybermission is a web-based science, technology, engineering, and math (STEM) competition for students that promotes self-discovery and enable all students to recognize the real-life applications of science, technology, engineering and math. Using either scientific inquiry or the engineering design process, students form teams of three to four students and propose a solution to a real problem in their communities, competing for state, regional, and national awards.

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Junior Solar Sprint (JSS)

[Educational program – Applications Accepted Soon]

<http://www.usaeop.com/programs/competitions/jss/>

An inquiry-based engineering challenge through which students design, build, and race model solar cars. Students develop teamwork and problem solving abilities, investigate environmental issues, gain hands-on engineering skills, and use principles of science and math to get the fastest, most interesting, and best crafted vehicle possible. An online portal provides resources and connections to education standards for teachers, mentors, and students, as they work through the design and building process.

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Junior Science and Humanities Symposium (JSHS)

[Competition – Applications Accepted Now]

<http://www.jshs.org/>

JSHS supports and recognizes high school students as they present their original research pursuits in the sciences, technology, engineering, and math, competing for scholarships and awards at both regional and national symposia. Students learn from their interactions with practicing researchers who provide enrichment opportunities at the symposia and discussions that allow participants to look beyond high-school to future post-secondary education and career development in STEM.

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UNITE (Summer experience – Applications Accepted Soon, Due February)

<http://www.usaeop.com/programs/stem-enrichment-activities/unite/>

UNITE promotes college majors and careers in engineering by providing high-school students, historically underserved and underrepresented in STEM areas, with the opportunity to participate in a hands-on academic and enrichment summer program in engineering.

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Internships provide students with hands-on research experiences in both military laboratory and university settings. Students have the unique opportunity to be mentored and trained by senior Army, or Army-sponsored researchers while conducting real-world research. All students are placed at a laboratory within commuting distance of their residences and receive a stipend for participation.

Science and Engineering Apprenticeship Program (SEAP)

[Apprentice/Mentor program – Applications Accepted Now]

<http://www.usaeop.com/programs/apprenticeships/seap/>

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Research and Engineering Apprenticeship Program (REAP)

[Summer program – Applications Accepted Now]

<http://www.usaeop.com/programs/apprenticeships/reap/>

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College Qualified Leaders (CQL)

[Mentor program – Applications Accepted All Year]

<http://www.usaeop.com/programs/apprenticeships/cql/>

College Undergrad

High School Apprenticeship Program (HSAP)

[Mentor program – Applications Accepted All Year]

<http://www.usaeop.com/programs/apprenticeships/hsap/>

College Undergrad

Undergraduate Research Apprenticeship Program (URAP)

[Mentor program – Applications Accepted All Year]

<http://www.usaeop.com/programs/apprenticeships/urap/>

College Undergrad

The Department of Defense offers many opportunities for students to continue their pursuit of STEM education beyond high school.

SCHOLARSHIP PROGRAMS	FOR GRADES
<p>National Defense Science and Engineering Graduate Fellowship (NDSEG) [Scholarship – Applications Accepted August 2016] http://www.usaeop.com/programs/dod-scholarships-awards/ndseg/</p>	College Undergrad
<p>Science, Mathematics and Research for Transformation (SMART) [Scholarship – Applications Accepted August 2016] http://www.usaeop.com/programs/dod-scholarships-awards/smart/</p>	College Undergrad

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