

# U.S. Army Aeromedical Research Laboratory Gains in the Education of Mathematics and Science Program

**Completed applications must be received no later than May 5, 2014. Completed applications may be submitted in one of the following ways:**

Fax to 334-255-6983

E-mail encrypted to usarmy.rucker.medcom-usaarl.list.sic@mail.mil

Hand-deliver to:

U.S. Army Aeromedical Research Laboratory, Building 6901  
ATTN: GEMS Program Coordinator  
Fort Rucker, AL 36362

Mail to:

U.S. Army Aeromedical Research Laboratory, SIC  
ATTN: GEMS Program Coordinator  
P.O. Box 620577  
Fort Rucker, AL 36362

## PARTICIPANT APPLICATION

**Sections marked with an asterisk (\*) are mandatory.**

| CONTACT INFORMATION   |               |                 |           |
|---|---------------|-----------------|-----------|
| First Name:*  | Last Name:*   | Middle Initial: |           |
| E-mail Address:*  |               |                 |           |
| Permanent Address*  |               |                 |           |
| Is this your primary address?* <input type="checkbox"/> Yes <input type="checkbox"/> No |               |                 |           |
| Street Address:*  |               |                 |           |
| City:*  | State:*       | Zip Code:*      | Country:* |
| Current Address (if different from above)   |               |                 |           |
| Is this your primary address? <input type="checkbox"/> Yes <input type="checkbox"/> No  |               |                 |           |
| Street Address:   |               |                 |           |
| City:   | State:        | Zip Code:       | Country:  |
| Home/Main Phone:*   | Mobile Phone: | Work Phone:     | Other:    |

|  |
|--|
| Is the applicant 17 or younger?* <input type="checkbox"/> Yes <input type="checkbox"/> No  |
| <b>If yes, please read the following Privacy Policy and initial after to acknowledge reading and granting permission to apply to this program.</b> |

# USAARL Gains in the Education of Mathematics and Science Program

## PRIVACY POLICY AS OF 02APR14

The U.S. Army Aeromedical Research Laboratory (USAARL), Fort Rucker, Alabama is an organization that works on the U.S. Army Educational Outreach Program's (AEOP's) Gains in the Education of Mathematics and Science (GEMS) Program.

AEOP is provided as a public service by the Assistant Secretary of the Army Acquisition, Logistics, and Technology. AEOP does not collect any personally identifiable information from student users, age 17 and younger, without parental permission. If it is learned that any personally identifiable information has been collected without parental consent, that information will be destroyed as quickly as practical.

### Personally Identifiable Information

In accordance with the educational research Human Use Protocol titled "U.S. Army Laboratories as Professional Environments to Train Apprentice Scientists, Engineers and Technicians through Research Internships, Mentoring and Inquiry-Based Laboratory Experiments of Increasing Complexity" students who apply for an AEOP program will complete an application. This application requires the demographic and student information necessary for admission, security purposes, and to provide the necessary information for stipends/awards/competition notification. This data may be summarized for program evaluation purposes. Only authorized AEOP staff and the staff of organizations that work on the AEOP program can access this information. The e-mail address provided by the applicant on the application serves as a primary identifier and as a means to send confirmation e-mails and updates. This information will not be sold, released, or revealed to any persons or entities outside of AEOP administration. This information will be scheduled for regular destruction in accordance with AR 25-400-2 Army Records Information Management System (ARIMS) and/or National Archives and Records Administration General Records Schedule 20. Information provided will be used in accordance with the privacy policy under which the information was collected.

### Disclosure

Information provided such as name, address, date of birth, e-mail address, or telephone number, will not be disclosed to outside organizations, except for organizations that work on the AEOP program. In the case that information is disclosed to organizations that work on the AEOP program, such information will be used only for purposes related to the AEOP competition and program administration. Information may be disclosed in order to comply with the law and regulatory authorities, in response to legal processes, such as a court order or subpoena, or in special cases such as physical threat to users or others.

### Feedback

Following participation in an AEOP program, AEOP may solicit feedback from participants via electronic survey. Participation in these surveys is completely voluntary. Survey information will be used for purposes of improving the use and satisfaction of AEOP programs. Distribution of surveys is approved through the Human Use Protocol "U.S. Army Laboratories as Professional Environments to Train Apprentice Scientists, Engineers and Technicians through Research Internships, Mentoring and Inquiry-Based Laboratory Experiments of Increasing Complexity."

For more information contact [usarmy.rucker.medcom-usaarl.list.sic@mail.mil](mailto:usarmy.rucker.medcom-usaarl.list.sic@mail.mil).

## PARENT/LEGAL GUARDIAN PERMISSION

Parent/Legal Guardian Initials:\*

Parent/Legal Guardian Full Name:\*

Parent/Legal Guardian Emergency Phone Number:\*

Parent/Legal Guardian E-mail:\*

# USAARL Gains in the Education of Mathematics and Science Program

| APPLICANT PERSONAL INFORMATION   |  |
|--|--|
| What is your preferred method of communication?* <input type="checkbox"/> Phone <input type="checkbox"/> E-mail                    |  |
| Citizenship:*<br><input type="checkbox"/> U.S. Citizen <input type="checkbox"/> Permanent Resident <input type="checkbox"/> Other: |  |
| Do you have a parent or legal guardian that is active-duty military, retired military, or a DoD civilian?*                         |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |
| Which of the following best describes their current government status?   |  |
| <input type="checkbox"/> Active Military <input type="checkbox"/> Retired Military <input type="checkbox"/> DoD Civilian Service   |  |
| Date of Birth:*  | Gender:* <input type="checkbox"/> Male <input type="checkbox"/> Female |
| Do you have any disabilities?*   |  |
| <input type="checkbox"/> Visual <input type="checkbox"/> Audio <input type="checkbox"/> Mobile <input type="checkbox"/> Other:     |  |
| Please describe any special accommodations you may need.*  |  |

| PARTICIPANT INTEREST & EXPERIENCE  |  |
|--|--|
| Have you previously participated in GEMS?* <input type="checkbox"/> Yes <input type="checkbox"/> No                  |  |
| If yes, please list how many years:*   |  |
| Were you at a location other than USAARL, Fort Rucker, AL?* <input type="checkbox"/> Yes <input type="checkbox"/> No |  |
| If yes, please indicate which lab:*  |  |
| Please describe your major academic, career, and research areas of interest (1000 characters or less).               |  |

# USAARL Gains in the Education of Mathematics and Science Program

| REFERENCES                    |  |
|-------------------------------|--|
| <b>Reference 1</b>            |  |
| Reference 1 Name:*            |  |
| Reference 1 E-mail Address:*  |  |
| Reference 1 Phone Number:*    |  |
| Relationship to Reference 1:* |  |
| <b>Reference 2</b>            |  |
| Reference 2 Name:*            |  |
| Reference 2 E-mail Address:*  |  |
| Reference 2 Phone Number:*    |  |
| Relationship to Reference 2:* |  |

| SCHOOL INFORMATION  |  |
|---|--|
| Current Grade (2013-2014 school year):* <input type="checkbox"/> 5 <sup>th</sup> <input type="checkbox"/> 6 <sup>th</sup> <input type="checkbox"/> 7 <sup>th</sup> <input type="checkbox"/> 8 <sup>th</sup> |  |
| How is your grade classified in your school system?*  |  |
| <input type="checkbox"/> elementary school <input type="checkbox"/> middle school <input type="checkbox"/> high school <input type="checkbox"/> N/A   |  |
| Name of School:*  |  |
| City and State of School:*  |  |
| If available, please list your school website:  |  |

| DEMOGRAPHIC/MARKETING INFORMATION  |  |
|--|--|
| Did at least one parent or legal guardian graduate from college?*  |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Choose not to report   |  |
| Ethnicity:*  |  |
| <input type="checkbox"/> Choose not to report <input type="checkbox"/> Native American or Alaskan Native <input type="checkbox"/> Asian<br><input type="checkbox"/> Black or African American <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Native Hawaiian or other Pacific Islander<br><input type="checkbox"/> White or Caucasian <input type="checkbox"/> Other (please specify): |  |
| Which best describes the location of your school?*   |  |
| <input type="checkbox"/> Choose not to report <input type="checkbox"/> Urban <input type="checkbox"/> Suburban<br><input type="checkbox"/> Rural (country) <input type="checkbox"/> Frontier or Tribal School <input type="checkbox"/> Home School<br><input type="checkbox"/> Online School <input type="checkbox"/> Department of Defense School (DoDEA or DoDDS)  |  |
| Do you qualify for free or reduced lunch at school?*   |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Choose not to report   |  |
| Is English your first language?*   |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Choose not to report   |  |
| How would you rate the following in their ability to support your science, technology, engineering, and mathematics interests?   |  |
|  | Strongly Support      Supportive      Intended to be Supportive      Not Supportive      N/A                                 |
| Parents  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Extended Family  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Community  | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| In-class Instruction   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| After School Program   | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

# USAARL Gains in the Education of Mathematics and Science Program

## PROGRAM EVALUATION QUESTIONS

The following questions provide data to support federal regulations on program evaluation and assessment. The information you provide will not affect your application. Your responses will be stripped away from your personal information; however, your responses will help the Army to improve its programs and achieve the following Army STEM goals:

- STEM Literate Citizenry: Broaden, deepen, and diversify the pool of STEM talent.
- STEM Savvy Educators: Support and empower educators with unique research and technology resources.
- Sustainable Infrastructure: Develop and implement a cohesive, coordinated, and sustainable infrastructure across the Army.

How motivating are these factors in your application to the program?

|  | very motivating          | somewhat motivating      | not too motivating       | not motivating at all    |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Teacher/Professor encouragement                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| An academic requirement or school grade                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Learning something new or interesting                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| The program mentor   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Resume/college application building                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Networking opportunities   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Interest in science, technology, engineering or mathematics (STEM) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Interest in STEM careers with the Army                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Having fun   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Earning money over the summer                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Doing something with friends                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Using advanced laboratory technology                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Expanding laboratory or research skills                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Learning in ways that are not possible in school                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Serving the community or country                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Parent encouragement   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Exploring a unique work environment                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

How did you hear about this program?\*( Check all that apply)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Program or AEOP website                 | <input type="checkbox"/> Facebook, Twitter, or other social media | <input type="checkbox"/> School or University Newsletter or E-mail |
| <input type="checkbox"/> News Story                              | <input type="checkbox"/> Prior Participant                        | <input type="checkbox"/> Friend                                    |
| <input type="checkbox"/> Immediate family member                 | <input type="checkbox"/> Extended family member                   | <input type="checkbox"/> Friend of family                          |
| <input type="checkbox"/> Teacher or Professor                    | <input type="checkbox"/> Guidance Counselor                       | <input type="checkbox"/> Mentor from the Program                   |
| <input type="checkbox"/> Someone who works in an Army Laboratory |   |  |

Please provide the name of the person and the agency they work for:

Other:

# USAARL Gains in the Education of Mathematics and Science Program

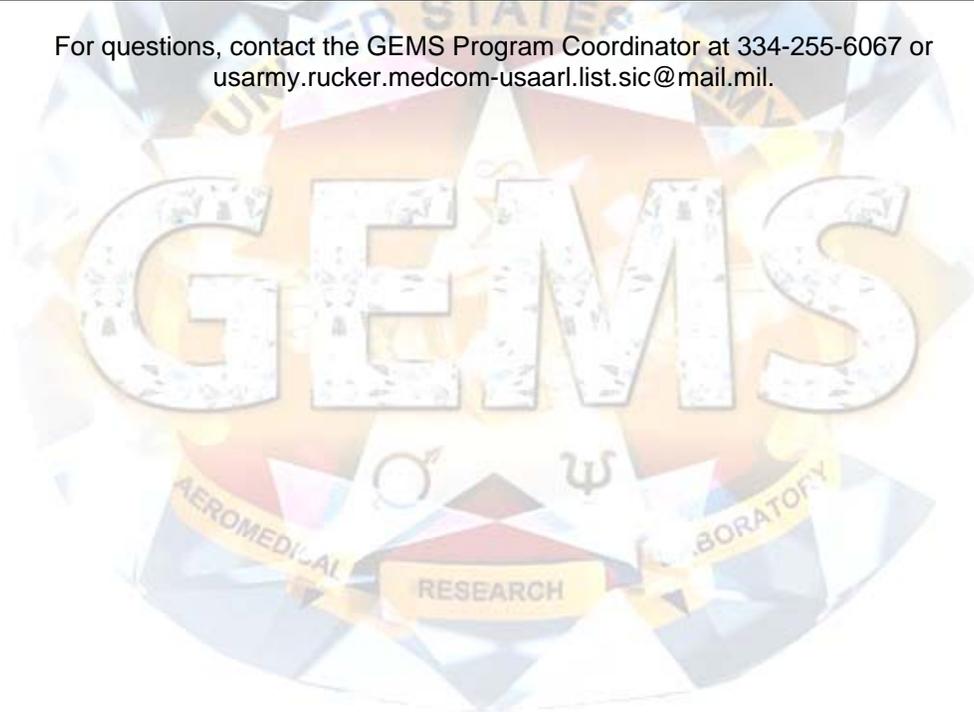
Please indicate the desired week of attendance:

| Neuroscience GEMS (5 <sup>th</sup> and 6 <sup>th</sup> grades) |   |
|--|---|
| July 7-11, 8:30am-3:30pm                                       | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> 4 <sup>th</sup> choice <input type="checkbox"/> can't attend |
| July 14-18, 8:30am-3:30pm                                      | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> 4 <sup>th</sup> choice <input type="checkbox"/> can't attend |
| July 21-25, 8:30am-3:30pm                                      | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> 4 <sup>th</sup> choice <input type="checkbox"/> can't attend |
| July 28-August 1, 8:30am-3:30pm                                | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> 4 <sup>th</sup> choice <input type="checkbox"/> can't attend |

Please indicate the desired week of attendance:

| Biochemistry GEMS (7 <sup>th</sup> and 8 <sup>th</sup> grades) |   |
|--|---|
| June 2-6, 8:30am-3:30pm  | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> can't attend |
| June 9-13, 8:30am-3:30pm                                       | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> can't attend |
| June 16-20, 8:30am-3:30pm                                      | <input type="checkbox"/> 1 <sup>st</sup> choice <input type="checkbox"/> 2 <sup>nd</sup> choice <input type="checkbox"/> 3 <sup>rd</sup> choice <input type="checkbox"/> can't attend |

For questions, contact the GEMS Program Coordinator at 334-255-6067 or [usarmy.rucker.medcom-usaarl.list.sic@mail.mil](mailto:usarmy.rucker.medcom-usaarl.list.sic@mail.mil).



# USAARL Gains in the Education of Mathematics and Science Program

**Completed Teacher Recommendation Forms must be received no later than May 5, 2014. Completed applications may be submitted in one of the following ways:**

Fax to 334-255-6983

E-mail encrypted to [usarmy.rucker.medcom-usaarl.list.sic@mail.mil](mailto:usarmy.rucker.medcom-usaarl.list.sic@mail.mil)

Hand-deliver to:

U.S. Army Aeromedical Research Laboratory, Building 6901

ATTN: GEMS Program Coordinator

Fort Rucker, AL 36362

Mail to:

U.S. Army Aeromedical Research Laboratory, SIC

ATTN: GEMS Program Coordinator

P.O. Box 620577

Fort Rucker, AL 36362

## TEACHER RECOMMENDATION FORM\*

|                   |        |
|-------------------|--------|
| Applicant's Name: |        |
| Teacher's Name:   | Phone: |
| School:           | Grade: |

| Rate the Applicant                       |                          |                          |                          |                          |                          |                          |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|  | Poor                     | Fair                     | Good                     | Above Average            | Outstanding              | N/A                      |
| Academic Ability                         | <input type="checkbox"/> |
| Academic Achievement                     | <input type="checkbox"/> |
| Oral Communication                       | <input type="checkbox"/> |
| Written Communication                    | <input type="checkbox"/> |
| Personal Initiative                      | <input type="checkbox"/> |
| Demonstrated Interest in Science or Math | <input type="checkbox"/> |

| Select a Recommendation                      |                                       |  |
|--|---------------------------------------|--|
| Highly Recommend<br><input type="checkbox"/> | Recommend<br><input type="checkbox"/> | Do Not Recommend<br><input type="checkbox"/> |

|           |
|-----------|
| Comments: |
|-----------|

Teacher's Signature \_\_\_\_\_ Date \_\_\_\_\_

For questions, contact the GEMS Program Coordinator at 334-255-6067 or [usarmy.rucker.medcom-usaarl.list.sic@mail.mil](mailto:usarmy.rucker.medcom-usaarl.list.sic@mail.mil).