



U S Army Aviation and Missile
 Research, Development and Engineering Center
 Army Educational Outreach Programs (AEOP)



CAPSULES

FEBRUARY 2009

GEMS 2009 Announced

AMRDEC is sponsoring a “Beginning GEMS” (formerly GEMS-1) program on Redstone Arsenal this summer. The “Beginning GEMS” (Gains in the Education of Mathematics and Science) program at Redstone Arsenal is designed for talented students who are entering high school (grades 9-12) in the Fall of 2009. The program offers participants the opportunity to expand upon their interest in mathematics, science, and engineering with hands-on laboratory experiences. These experiences include, but are not limited to, microelectromechanical systems (MEMS), optics, robotics, rockets, electronics, thermodynamics, and aerodynamics. An effort is made to balance the GEMS curricula between individual learning and team challenges.



The “Beginning GEMS” program at Redstone Arsenal is a ONE-WEEK program with 3 separate sessions beginning on either: 13 July 2009; 20 July 2009; or 27 July 2009. Each session will run Mon-Fri from 8:00 a.m. until 4:30 p.m.

AMRDEC is also sponsoring a ONE-WEEK “Intermediate GEMS” (formerly GEMS-2) program on Redstone Arsenal with two separate sessions beginning on either: 15 June 2009 or 22 June 2009. The session will run Mon-Fri from 8:00 a.m. until 4:30 p.m.

“Beginning GEMS” is a PREREQUISITE for “Intermediate GEMS”, and applicants to the “Intermediate GEMS” program must have successfully completed the “Beginning GEMS” program. The “Intermediate GEMS” program will stress problem solving, computer simulation, and practical applications in science and engineering.

There are spaces available for participation in this summer’s GEMS program at Redstone Arsenal. Interested students need

to register ASAP at: <http://www.usaeop.com/programs/GEMS/index.htm>

A student attends one session only. With respect to “Beginning GEMS,” students need to indicate their availability and preferences for ONLY the 3 weeks listed.

Please note that the website is the only method of registering for the GEMS program at Redstone Arsenal. When registering, indicate “REDSTONE ARSENAL” when

prompted for “Please indicate your desired location” AND indicate “REDSTONE ARSENAL” in the essay block found at the end of the application. The essay is MANDATORY for ALL Redstone Arsenal applicants (both Beginning GEMS and Intermediate GEMS).

If you have questions or concerns, please contact the Dr. Steven P. D. Smith at 256-876-8331.

AMRDEC to Participate in DoD Black History Month Observance

AMRDEC personnel are scheduled to participate in the DoD Black History Month Observance on February 25-26, at Alabama A & M University. DoD will combine its Black History Month observance with the outreach activities planned by AAMU, according to Clarence A. Johnson, principal director of DoD’s Office of Diversity Management and Equal Opportunity. DoD has adopted as its theme for the month of February “Reaching Out to Youth: A Strategy for Excellence.” Accordingly, all DoD organizations and agencies are being urged to conduct events and activities in observance of Black History Month.

The two-day DoD observance will begin Wednesday, February 25, in the Learning Resources Center auditorium with a 10 a.m. technical assistance workshop designed to provide university administrators and students information on

obtaining surplus equipment, contracts and grants. The session will end at 5 p.m.

The culminating event of the first day is a welcome and awards ceremony at 7 p.m. in the Ernest L. Knight Reception Center. The ceremony will host historically black college and university (HBCU) presidents and administrators; local government officials; and community members and organizations. It will also recognize military award recipients engaged in the global war on terrorism. This event is sponsored by Team Redstone.

The DoD/HBCU Leadership Symposium has been scheduled for Thursday, February 26, from 8-11 a.m. in the Clyde Foster Multipurpose Room of the School of Business. Senior DoD officials and HBCU presidents will discuss critical minority representation issues.

Two concurrent sessions also will run from 9-11:30 a.m. on Thursday. A student exposition for middle and high school students will be held in the auditorium of the School of Engineering and Technology. The session will include presentations about opportunities for appointments at service academies, ROTC entry, and civilian careers. Students will also have a chance to tour exhibits. A similar college student career symposium will be held in the Dawson Building auditorium. Additional exhibits will be located in the Ernest L. Knight Reception Center on Wednesday and Thursday.

The joint DoD-AAMU Black History Month observance will conclude with a luncheon in the Ernest L. Knight Reception Center at 12 noon for HBCU officials and students. Dr. Steven P. D. Smith is the AMRDEC POC for this event.

2009 Summer Hire Opportunities at Redstone Arsenal

Redstone Arsenal announces three summer programs for 2009, including SEAP, Summer Hires, or GEMS II.

The Science and Engineering Apprenticeship Program (SEAP) office places academically talented students, ranging from middle school through college, in Department of Defense (DoD) laboratories for eight (8) continuous weeks during the summer. These students, who usually possess a diverse background and have an interest in sciences and mathematics, work closely with scientists and engineers who act as their mentors. The program offers students a unique and positive experience in their fields of interest, thus encouraging them to pursue careers in science and engineering.

The SEAP application deadline for the Huntsville, AL, area is 30 January 2009. There are two (2) ways to apply to the SEAP program: on-line application or paper application. A complete application package consists of the completed application form, the student's personal statement, the teacher recommendation, and the transcript. Applications and supporting materials will need

to be sent to George Washington University.

For applying on-line, go to <http://www.gwseap.net/default.asp> to begin the application process. Also, according to



AMRDEC Human Resources, application packages are mailed directly to high school and college guidance departments. For additional information regarding the Redstone Program, you may contact Tina BoClair,

CPAC, 313-4834.

Last year, the announcement for "Team Redstone Student Temporary Employment Program (STEP) Summer Hire Announcements" opened and closed in March. (Be sure to read the entire announcement and follow instructions carefully.) For consideration, applicants must be students who are currently enrolled in school, be 16 years of age or older, and be citizens of the United States.

If you are interested in the Team Redstone Summer Hire program, the announcement will come out via CPOL. (Click Employment, pull down to Student Opportunities, and then pull down to Student Programs.) While the announcement for 2009 may not have been made, a resume can be generated NOW at www.cpol.army.mil. Once your resume is in the system, simply self-nominate yourself when the Team Redstone Summer Hire announcement opens.

You may also apply to the 2009 GEMS program at Redstone Arsenal. Please see the announcement regarding GEMS in this newsletter.

STEMS Education Coordinator Attends Community Fair

Gayla Turner McMichael, STEM Education Coordinator and Electronics Engineer, at AMRDEC attended the Sparkman Middle School, Community Fair held Tuesday, January 27, 2009, at 6:00 p.m. McMichael gave a presentation on the eCybermission program and other Army Education Outreach Programs at AMRDEC. Following the presentation, parents and students visited the booth to receive literature and further dialog with Ms. McMichael about the program.

SEAP Mentors are needed for summer 2009. If you are interested in participating, please contact Linda Brown at 876-1522 or linda.brown2@us.army.mil.