

DEPARTMENT OF DEFENSE

Department of Defense Education Gateway

<https://ca.dtic.mil/edugate>

This web site provides general information about Science, Mathematics and Engineering (SME) educational programs sponsored in whole or in part by the Department of Defense. Sponsored and funded by the Director of Defense Research and Engineering, the site was originally intended to display information only about programs with science, mathematics, or engineering content. The web site is now open to any and all genuine educational efforts supported by the Department.

United States Naval Academy

www.usna.edu

Annapolis, MD 21402-5000

National Defense University Schools

Fort Lesley J. McNair

Washington DC 20319-5066

The National Defense University is an accredited graduate-level university. With facilities located in Washington, DC, and Norfolk, VA, on any given day, there could be up to a thousand people attending University courses and programs. Every year more than 550 masters' degrees are awarded to students who complete studies at the National War College, Industrial College of the Armed Forces, and the Joint Advanced Warfighting School. Through agreements with a number of other universities, Information Resources Management College students can earn 15 graduate credits for work completed at NDU. Joint Forces Staff College has educational partnerships with 13 local colleges and universities, and those available near combatant commands, that allow transfer of up to 15 graduate credits for work completed.

For more information, visit:

- Industrial College of the Armed Forces
- Information Resources Management College
- Joint Forces Staff College
- National War College
- School for National Security Executive Education

National Defense University Research Centers

Education, research, and outreach are NDU's main missions. Through its research centers, NDU produces policy analyses, research, and other support to the Office of the Secretary of Defense, the Joint Chiefs of Staff, Combatant Commanders from major military commands, and other U.S. Government

agencies.

For more information, visit:

- Center for the Study of Weapons of Mass Destruction
- Center for Technology and National Security Policy
- Institute for National Strategic Studies
- Center for the Study of Chinese Military Affairs
- National Strategic Gaming Center
 - Interagency Transformation, Education and Analysis Program (ITEA)
 - Secretary of Defense Strategic Policy Forum (SPF) for Members of Congress and Senior Executive Branch officials

Army Distance Learning Program

www.aimsrdl.atssc.army.mil

National Security Education Program

www.ndu.edu/nsep

Troops to Teachers

www.ed.gov/programs/troops/index.html

Department of Defense Voluntary Education Program

www.valed.doded.mil

Department of Defense Education Activities

Teaching the children of America's military worldwide

www.dodea.edu

Uniformed Services University of Health Sciences

www.usuhs.edu

The nation's federal school of medicine and graduate school of nursing. The university is a unique center of learning that produces the physician and nurse leaders who maintain the health of our country's fighting forces.

Office of Naval Research

<http://www.onr.navy.mil/about/students.asp>

Students & Teachers

At this site for young students, kids can learn about oceans, ocean life, submarines and more. Also, students can ask the Cyberscientist questions about science or read previous questions & answers sent in by other students.

- Career Information Center Learn about the latest job openings at the Office of Naval Research and the Navy Research Laboratory. To apply for the

Student Temporary Employment Program, send your resume or questions to StudentApps@onr.navy.mil.

- Science Fair Registration (NSAP)
- The Naval High School Science Awards Program (NSAP) was established to encourage the interest of high school students in science and engineering, to reward their scientific achievements, and to encourage them to pursue careers in science or engineering.
- Naval Science Awards Program (additional information)

University Research Initiative/Education/Historically Black Colleges and Universities/Minority Institutions

Information for educators and students on cross-disciplinary research and education programs.

Summer Program Opportunity Internship program at Department of the Navy Laboratories For College Students For High School Students

Navy Science & Technology Grand Challenges

Awards to Stimulate and Support Undergraduate Research Education (ASSURE)

Army Research Lab

<http://www.arl.army.mil/main/main/default.cfm?Action=6&Page=9>

ARL has continued the Science and Technology Academic Recognition System (STARS) that is a training and development program designed to reach talented students at HBCU/MIs who are enrolled in a science, engineering, or mathematics curriculum. The program offers up to \$20,000 for tuition and expenses during the senior undergraduate year and up to \$30,000 for each of two years of graduate school. ARL has committed a total of over \$1 million to STARS recipients and in FY02 provided \$180,000 to nine STARS Fellows. Educational Partnership Agreements (EPAs) provide ARL the means to assist universities in extending their research capabilities in areas relevant to Army needs and provide an opportunity for students to work on degrees in programs of interest to ARL. Benefits to the Army are two-fold. First, the university develops scientific and engineering expertise applicable to future Army needs. Second, students working on ARL-sponsored research receive an early exposure to ARL thereby expanding the possible talent pool for future recruitment. In FY02 ARL culminated a two-year effort to energize our EPAs and we now have six formal EPAs with HBCU/MIs.

<http://www.arl.army.mil/main/Main/default.cfm?Action=6&Page=9>

Students Learn About BRAC Jobs

<http://www.baltimoresun.com/news/local/annearundel/bal-ar.brac25feb25,0,7370203.story?coll=bal-local-arundel>

Arundel youths are told that they can take advantage of opportunities close to home

By SUSAN GVOZDAS

SPECIAL TO THE SUN

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After getting a crash course on how thousands of technology jobs are coming to Fort Meade in the next five years, Dahmar Smiles thinks he just might go to an in-state college after all.

By the time the Meade High School junior graduates from college, the Defense Information Systems Agency will have moved its headquarters from Northern Virginia to the Army base in western Anne Arundel County as part of the Base Realignment and Closure process, known as BRAC.

That agency's move could bring at least 4,700 high-paying jobs to Maryland in 2010. Dahmar said college students who take advantage of local internships will have the advantage when it comes to hiring.

"With the jobs coming, why leave?" he said.

Friday's BRAC Technology Day, sponsored by area businesses and public school officials, was based on the theme that students who study math, science and engineering can stay in Maryland and expect to land a job.

Science Applications International Corp., a government contractor, was one of the sponsors of the event, attended by about 200 students from Meade, Arundel, Broadneck and North County high schools. Only a few hands went up when the company's BRAC coordinator, Jeffrey McGaughey, asked the teenagers whether they knew what BRAC was.

All told, the consolidation of military posts could bring 30,000 to 50,000 jobs to Maryland in the next 10 years, he said.

"It bodes very well for everyone sitting in this room," McGaughey said. "You don't have to go far from home. There are a lot of opportunities."

His company, Science Applications, is a member of the Fort Meade Alliance, a co-sponsor of the event along with Anne Arundel Community College, which held the seminar at its Arundel Mills campus. The Fort Meade Alliance is focused on bringing opportunities from the military base to local businesses.

SAIC, a California-based company with 50,000 employees, made presentations to show students some of the technology jobs its divisions perform at Fort Meade and Aberdeen Proving Grounds. The 30-minute demonstrations were supposed

to show students the practical applications of subjects they are studying in school.

In one room, SAIC engineers showed students the protective gear and equipment the company makes for soldiers who might be exposed to chemical, biological, nuclear or explosive weapons.

Dahmar, 17, reluctantly held a black rubber gas mask to his face and pulled the black hairnet over the back of his head. He seemed more interested in the infrared-imaging device.

He moved the viewing screen around the room to see heat sources, such as classmates, glow white on the gray screen.

The sensors - so sensitive they can pick up the heat of people's footprints - can help soldiers see through smoke or darkness, said Chris Watson, a SAIC program engineer. Students passed around Geiger counters that are used to detect radiation.

The devices, which look like large flashlights, can detect whether the radiation is from medical treatment or the type of dangerous ionizing radiation that can damage cells.

Dahmar left that presentation feeling confident about his choice to major in computer science.

"I think a lot of kids think about becoming doctors and lawyers," said Dahmar, who is interested in software development. "Computer science ... brings all the fields together."

Students listened to presentations about the convergence of voice, data and video in telecommunications, and the importance of algorithms in making public policy decisions.

Research analysts from the Decision Support and Analysis Center, a division of SAIC in Hanover, showed students how analysts could use custom software to assess the effect of BRAC on Maryland's schools, roads and hospitals.

They showed students the complicated algorithms programmed into the software.

Lenee Silver, 16, a junior at Meade High, said she has mapped out a potential career in computer security. She wants to prevent hackers from tapping into top-secret information stored in computer systems and envisions a job at the National Security Agency, which has its headquarters at Fort Meade.

Lenee is scouting colleges in Maryland and Virginia.

"I'd like to stay," she said. "I like this area."

Beverly Frye, site coordinator for the new Academy of Information Technology at Arundel High School, said the information and advice given the students yesterday - to stay drug-free and out of jail so that they can qualify for security clearances - are more effective when they come from sources other than teachers.

"We want these kids to realize that if they don't start thinking now, they might not be able to get into the fields they want," Frye said.