EDUCATION AND TRAINING

Over the last half century, Maryland has been one of the most prominent sources of both undergraduate and graduate degrees for men and women in the intelligence and national security professions. Today, this tradition continues through such programs as the NSA Analyst Training Program, an Executive Masters in Public Policy offered for employees of the National Reconnaissance Office, and executive certificate programs in a range of fields for government employees and personnel working for private sector contractors to the intelligence and national security communities. Additionally, because the University of Maryland is one of the largest and most ethnically diverse national research universities in the country, it is well positioned to train a diverse national security and intelligence workforce.

Working within established curricula, the University is able to offer a wide range of programs in the physical and mathematical sciences, intelligence analysis, terrorism analysis, and leadership, tailored to meet the needs of an agency or corporation. The university emphasizes for-credit programs applicable to advanced degrees, as well as executive education.

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PARTNERSHIPS

The university’s strategic location enables productive partnerships with the agencies and companies most invested in the nation’s security agenda. Maryland’s academic departments and research centers collaborate with many industry and governmental partners. The following list is a sample of our research and development partners.

Federal Government
Central Intelligence Agency (CIA)
Defense Advanced Research Projects Agency (DARPA)
Marine Corps
National Reconnaissance Office (NRO)
Defense Intelligence Agency (DIA)
Intelligence Advanced Research Projects Agency (IARPA)
Foreign Service Institute (FSI)
Federal Bureau of Investigation (FBI)
National Geospatial Intelligence Agency (NGA)
National Science Foundation
National Security Agency (NSA)
Department of Defense
NIST
Department of Homeland Security
Army Research Laboratory
Naval Research Laboratory

Private Industry and Non-Profits
Metron Aviation, Inc.
IBM
Advanced Acoustic Concepts, Inc.
SAIC
Nextor
Northrop Grumman
CACI International
Boeing
Lockheed Martin Corp.
Noblis
Meta
Bossa Allen Hamilton

LOCATION

The University of Maryland is at the geographic center of our nation’s security and intelligence communities. The National Security Agency (NSA), the Army Research Lab (ARL), the NASA Goddard Space Flight Center, the National Oceanic and Atmospheric Administration (NOAA), the FDA, and the USDA all are located within a few miles of the College Park campus. Recently, the Intelligence Advanced Research Projects Activity (IARPA) joined the ranks of Maryland’s intelligence-related neighbors and will be located at the University of Maryland Research Park. Just a few miles away from campus are Andrews Air Force Base, the Arecostia Naval Station and the nation’s top security agencies, including the National Geospatial Intelligence Agency (NSA), the FBI and the CIA.

The development of University of Maryland Research Park further enhances the campus and its neighboring facilities as one of the nation’s leading research centers. Several of the centers mentioned previously are housed at University of Maryland Research Park, including the National Foreign Language Center, FDA Center for Food Safety and the USDA Animal and Plant Health Inspection Service. The university’s East Campus development, a $700 million dollar project, will provide additional hotel and conference facilities to support this research community — within walking distance of METRO.

To keep America safe, our security agencies need flexible and creative solutions for the broad and diffuse range of security challenges we face at home and abroad. The University of Maryland is committed to providing the research, education, and training to help solve the complex problems of a continually changing security landscape. Maryland is uniquely positioned — both intellectually and geographically — to provide critical support for the security and intelligence communities.

**Research Capabilities**

Security challenges require skilled research in many areas, including linguistics, engineering, psychology, sociology, computer science, public policy, and the physical, life and mathematical sciences. The University of Maryland has the expertise to support the nation’s security objectives through the research and demonstration projects carried out in dozens of laboratories and interdisciplinary centers. The following research initiatives are just a few of the university’s specialized security-related centers.

- **Center for Advanced Study of Language (CASL).** CASL is the nation’s only University Affiliated Research Center (UARC) devoted to developing the language capabilities of federal government personnel. The center responds on demand to the immediate operational needs of the intelligence community and investigates ways to expedite language acquisition, especially for politically important languages, such as Arabic, Korean, Farsi, and Persian.

- **National Consortium for the Study of Terrorism and Responses to Terrorism (START).** START is one of the first Department of Homeland Security’s Centers of Excellence focusing on terrorist group formation and recruitment, terrorist group persistence and dynamics, and societal responses to terrorist threats and attacks. http://www.start.umd.edu

- **The Laboratory for Physical Sciences (LPS).** Researchers from the National Security Agency (NSA) and The University of Maryland collaborate on research in advanced communication tactics and computer technologies at this unique on-campus facility. Past research highlights include the development of successful systems to increase the speed of secure optical communication through the atmosphere. http://www.lps.umd.edu

- **The Laboratory for Telecommunication Sciences (LTS).** LTS is a Department of Defense research lab, located on the campus of the University of Maryland, whose focus is on networking and telecommunications, including wireless ad hoc networks for use in the military. http://www.isr.md.edu

- **University of Maryland Institute for Advanced Computer Studies (UMIACS).** More than 17 laboratories and institutes operate within UMIACS, many of them devoted to research in areas of security. For example, major projects include the Computer Vision Laboratory’s work on biometric recognition and the development of algorithms for surveillance systems, and the Laboratory for Computational Cultural Dynamics’ study of terrorism in Peru and Guatemala and the drug trade in Afghanistan. http://www.umiacs.umd.edu

- **The Institute for Systems Research (ISR).** Part of the A. James Clark School of Engineering, ISR is devoted to interdisciplinary research and education programs in systems engineering and sciences. ISR’s research areas include network security, hybrid communication networks, and transportation system analysis. http://www.isr.umd.edu

- **Maryland Industrial Partnerships (MIPS).** MIPS helps fund projects that bring state-of-the-art technology to the global marketplace. One of the greatest homeland security successes of MIPS is a Phraselator, a device that translates English into four languages. Developed in conjunction with Allied Data Systems, the device has bridged communication gaps for the military during operations Enduring Freedom and Iraqi Freedom. http://www.mips.umd.edu

- **Center for Risk Communication Research (CIRC).** The center’s research focuses on improving risk communication and finding ways to translate risk communication research into useable resources for industry and government. Current projects study the effects of risk messages about bioterrorism on audience behavior and examine the impact of the media on terrorism and counterterrorism efforts. http://www.comm.riskcenter.umd.edu

- **Center for Food Systems Safety and Security (CFS3).** Established in fall 2007 within the College of Agriculture and Natural Resources, the center focuses on disaster response related to food and water resources and on securing food production supply systems to insure public safety. http://agresearch.umd.edu/CFS3

- **Maryland Pathogen Research Institute (MPRI).** This center houses University of Maryland researchers who study new ways to detect pathogens in the environment and to prevent and cure global infectious diseases. The center plans to work closely with such federal labs as the Department of Homeland Security’s National Biodefense Analysis and Countermeasures Center (NBACC) in Fort Detrick, Maryland. http://www.mpri.umd.edu

- **Program for Intelligence Research and Education (PIRE), School of Public Policy.** This program is responsible for advancing intelligence studies as an academic discipline, for on-campus and executive education programs, and for research in analytic methodology and other fields. www.publicpolicy.umd.edu