FBI/CIA/DHS
S.T.E.M.

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Career and Internship Opportunities
For STEM Students
The FBI employs approximately **35,000** people, including special agents and support professionals such as intelligence analysts, language specialists, scientists, and information technology specialists.

Before applying as an FBI agent, it is important for candidates to hold a bachelors degree from an accredited institution. Most appropriate study areas include cyber crime, computer forensics, criminal justice, biology, and business administration.

The FBI has a wide variety of career paths for individuals from all backgrounds and experiences.
The FBI recruits at all stages of their professional careers, from recent college graduate to seasoned law enforcement professional. An applicant with an undergraduate degree without any significant professional experience would enter the bureau at the GS-7 pay grade, while those with a master’s degree or higher is likely to enter at the GS-9 level.

The FBI recruits professionals from a wide range of academic and professional specialties including:

- Foreign languages
- International studies
- Scientific disciplines
- Engineering
- Information technology
- Law enforcement
- Finance
- Political science
- Terrorism studies
- English
STEM (Science, Technology, Engineering and Mathematics) is an exciting and expansive field. STEM professionals at the FBI have opportunities to work with advanced technologies to address unique investigative and intelligence challenges not found in the private sector. Their expertise applies to forensic science, computer technology, cyber security, electronic surveillance, biometrics, encryption and more.

STEM professionals work across the entire FBI, from our 56 field offices to our Headquarters locations, but primarily within the Laboratory Division, Operational Technology Division, Cyber Division, Criminal Justice Information Services (CJIS) Division and the Information Technology Branch.
Preferred Degrees and Experience
Degree, certification or experience in any of the following disciplines:

- Actuary Services
- Aerospace
- Applications Software Development
- Biology
- Chemistry
- Computer Network Analysis
- Computer Network Exploitation
- Computer Science
- Concealment Manufacturing
- Cryptography/Cryptanalysis
- Cyber Incident Response
- Data/Database Management
- Data Science
- Digital/Cyber Forensics
- Electronics Engineering
- Geology
- Information Security
- Information Technology (IT)
- Intrusion Detection Techniques
- Malware Analysis
- Metallurgy
- Network Engineering
- Network Management and Security
- Operating Systems
- Physical Science
- Radio/Satellite Communications
- Software Engineering/Reverse Engineering
- Systems Analysis
- Tagging, Tracking and Locating
- Tool Development/Programming
- Video and Audio Surveillance and Analysis
Other FBI STEM positions include:

- Biologist
- Chemist
- Cryptologist/Cryptanalyst
- Data Communications Systems Analyst
- Document Analyst
- Electronics Engineer
- Explosives/Incendiary Devices Analyst
- Forensic Scientist (DNA, hair, latent fingerprints, firearms, tool marks, questioned documents, etc.)
- Hazardous Materials Expert
- Information Technology Project Manager
- Information Technology Specialist
- Mathematician
- Mechanical Engineer
- Photographic Technologist
- Physical Scientist
- Software Engineer
- Telecommunications Specialist
What STEM Does

- FBI STEM professionals tackle interesting and exciting challenges rarely provided by civilian careers. One day may require a terrorist to be identified through a partial fingerprint or a single strand of hair. Other tasks may require knowledge of advanced computer systems to monitor the communications of suspected criminals or spy organizations.

- Other tasks qualified candidates may be responsible for include:
  - Decrypting cyber-based threats of espionage or terrorism.
  - Researching the latest biometric technologies.
  - Exploiting residual data retrieved from a “destroyed” communications device.

- STEM professionals also have opportunities to experience a variety of careers within the FBI, such as by becoming a Special Agent or Intelligence Analyst.

- Students majoring in STEM fields in undergraduate, graduate or Ph.D. programs are encouraged to apply to the Honors Internship Program and Collegiate Hiring Initiative.
Special Agents possessing a broad range of education, experiences, and skills are needed for the FBI to be successful. For example, you may be asked to utilize foreign language skills to interview a victim of human trafficking, computer skills to decipher malicious code, accounting skills to uncover hidden assets, or communication and collaboration skills to lead a joint agency investigation.
Employment Requirements for the Special Agent Position

• Be between 23 and 36 years of age.
• Have a minimum of a bachelor’s degree from a U.S.-accredited college or university.
• Have at least two years of full-time professional work experience; or one year if you have earned an advanced degree (master’s or higher).
• Possess a valid driver’s license and have six months of driving experience.
• Meet the Special Agent physical fitness standards (see Physical Requirements below).
• Be available to report to one of the FBI’s 56 field offices for interviews and testing several times throughout the application process.
• If you are currently on active duty in the military, you must be within one (1) year of completing your service before submitting your application.

Core Competencies

• Collaboration
• Communication
• Flexibility/Adaptability
• Initiative
• Leadership
• Organizing and Planning
• Problem Solving/Judgment
What You Will Do as an Intelligence Analyst

- Intelligence Analysts break down information into key components and contribute to plans of action to understand, mitigate and neutralize threats. This means they are part of our first line of defense for national security. The following are general activities an Intelligence Analyst will perform regardless of placement or topic:

  - Identify threats and provide decision makers with the information they need to combat those threats through intelligence analysis collected by field offices and around the world. From there, develop assessments based on all available information.

  - Facilitate information sharing by developing relationships, forming networks and partnering with international, national, state, and local contacts in the intelligence and law enforcement communities.

  - Use knowledge and understanding of language, culture and history of specific regions to combat and stay ahead of threats.
Intelligence Analysts work closely with Special Agents, other FBI employees and Intelligence Community partners to consolidate comprehensive information into strategic, analytical intelligence products to enhance their teams' understanding of threats, gaps and vulnerabilities. In many cases, this information is found through self-initiated study and research.
**Honors Internship Program**
The Honors Internship Program is a 10-week, paid internship for college undergraduate and graduate students. While exploring our exciting career options, students work side-by-side with FBI employees at our Washington, D.C.-area Headquarters or in Field Offices around the country. Open to a wide range of academic areas, this internship offers experiences students can’t find elsewhere.

The application for the 2020 program will open in August 2019.

**Collegiate Hiring Initiative**
The FBI’s Collegiate Hiring Initiative recruits graduating seniors or individuals who have undergraduate, graduate or PhD degrees to begin their careers in an organization that offers opportunities like no other.
Vision
CIA’s information, insights, and actions consistently provide tactical and strategic advantage for the United States.

Mission
Preempt threats and further US national security objectives by collecting intelligence that matters, producing objective all-source analysis, conducting effective covert action as directed by the President, and safeguarding the secrets that help keep our Nation safe.
If you have a background in Computer Science, there are a number of exciting career opportunities for you at CIA. #ComputerScience #STEM
The CIA hires undergraduate interns from many different disciplines and Offers scholarships to qualified students.
In a STEM internship, you will learn how these innovative experts ensure the CIA can adapt to the ever-changing technical issues that arise in the 21st century.

- Graduate Studies Program - Intelligence Analyst
- Graduate Studies Program - Computer Science
- Graduate Studies Program - Cyber Exploitation Officer
- Graduate Studies Program - Data Scientist
- Graduate Studies Program - Digital Targeter
- Graduate Studies Program - Engineering
- Graduate Studies Program - Human Resources Analyst
- Graduate Studies Program - Technical Researcher

Careers at the Central Intelligence Agency

YOUR UNIQUE PERSPECTIVES CAN KEEP OUR NATIONS STRONG.

Work with the best. Become part of America’s premier intelligence agency. There are numerous opportunities for students and professionals to serve in roles that align with your interests.

- Analyst: As an CIA, analysts are charged with understanding and anticipating developments around the world, providing unique insights through written assessments and briefings to U.S. policymakers to head off national security threats and provide strategic advantage to the United States. We welcome the full spectrum of functional, geographic, and technical expertise that can both challenge and give opportunity to the United States today.

- Digital Innovation Officers: Within the CIA, Digital Innovation Officers advances technological advancements that are aligned with our mission. These experts collaborate to form a powerful network of capabilities, incorporating insights from developing the tools needed to excel in the cyber arena to sustain our security operations. We ensure that the next generation of the Agency are equipped and ready to embrace the challenges and opportunities of the rapidly changing world to which they aspire.

- Director of Operations Officers: The CIA’s Director of Operations (DO) is the center of American intelligence’s operations. DOs are the experts in crafting and delivering the CIA’s mission. They design and execute operations and activities to protect national interests and advance the Agency’s mission.

- Technical Researcher: Technical Researchers are the driving force behind the Agency’s technical capabilities. They provide the raw materials on which the CIA’s intelligence and operations are built. Technical researchers are the ones who see problems and find solutions.
Technology so advanced it's classified.
CIA’s Directorate of Science and Technology (DS&T). Innovation is their trademark – as a Technical Intelligence Officer (TIO), you will develop and deliver leading edge technology that will keep our country safe. Imagine a world of endless career opportunities as a TIO.

- Biology
- Chemistry
- Computer Science
- Mathematics
- Physics
- Various Engineering Fields to include:
  - Aerospace
  - Chemical
  - Computer
  - Electrical
  - Mechanical
  - Systems
  - And many more…
Established: 2007
Employees: 3,000
Field Offices: 230 cities
Protective Security Advisors: 90
Chemical Facility Inspectors: 130
Federal Law Enforcement Officers: 900
Total Field Personnel: 1,500

- Issue dozens of actionable cybersecurity alerts to the private sector and general public to help protect against threats.
- Work with State and local officials to plan security for large public gatherings, such as Times Square New Year’s Eve, the Presidential Inauguration, and the Super Bowl.
- Meet with dozens of owners and operators — from chemical plants and electric utilities to shopping malls—to help them assess and mitigate potential risks from terrorist attacks and natural disasters.
- Protect more than 9,500 Federal facilities and screen thousands of daily visitors, while keeping out hundreds of prohibited items.
- Process roughly 2,000 identity verifications in a timely and secure manner while protecting individuals’ privacy, civil rights, and civil liberties.
The Department of Homeland Security offers a variety of prestigious scholarships, fellowships, internships and training opportunities to expose talented students to the broad national security mission.
The Secretary’s Honors Program Cyber Student Volunteer Initiative is for current undergraduate and graduate students pursuing a program of study in a cybersecurity-related field. Selected students learn about the DHS cybersecurity mission, complete hands-on cybersecurity work, and build technical experience in key areas such as digital forensics, network diagnostics, and incident response. Additionally, students participate in mentoring and professional development activities with DHS managers and senior leaders from across components.
The Pathways Programs offer clear paths to federal internships for students from high school through post-graduate school and to careers for recent graduates, and provide meaningful training and career development opportunities for individuals who are at the beginning of their federal service. As a student or recent graduate, you can begin your career in the federal government by choosing the path that best describes you and where you are in your academics.

National HS-STEM Summer Internship Program
National HS-STEM Summer Internship Program provides undergraduate and graduate students the opportunity to work with homeland security professionals and researchers for up to ten weeks during the summer. Participants are provided a stipend and conduct research in DHS mission-relevant research areas at federal research facilities.
1) Make A Difference
2) Great Benefits / Competitive Pay
3) The Government Is Hiring
4) Location, Location, Location
5) Jobs For Every Major
6) Opportunities For Advancement And Professional Development
7) Interesting And Challenging Work
8) Work/Life Balance
9) Job Security
Questions.