

Cyber Jobs

A GUIDE FOR GRADUATES



WHERE THE
WORLD CONNECTS

Cyber@SIPA
SIPA.COLUMBIA.EDU



Cybersecurity Jobs for SIPA Graduates



	THREAT INTELLIGENCE	BUSINESS CYBER RISK	CYBER POLICY	TECH POLICY	GOVERNMENT RELATIONS
What You'll Do	<ul style="list-style-type: none">Use public or secret information to analyze and assess cyber threat actors: who are they, what are they doing now, what might they do next?Write reports for and brief clients and senior executives	<ul style="list-style-type: none">Analyze the impact of cyber security and threat information on a company's business operations, organization and plansWrite and present the most important business risks (and opportunities) based on company particulars	<ul style="list-style-type: none">Research, analyze and write on major issues in cyber policy, especially defense and international affairsEspecially at entry-level, organize events and manage projects	<ul style="list-style-type: none">Research, analyze and write on major issues in digital technologies and their impactEspecially at entry-level, organize events and manage projects	<ul style="list-style-type: none">Help company understand new government cyber-related policiesHelp governments understand new technologies and company's positionMay include lobbying
Why a SIPA Graduate?	<ul style="list-style-type: none">You will be valued for your skills in analysis and writing and because you understand the way the world worksYou will have a deep understanding of who is attacking whom and whyYou will likely be behind others on tech knowledge	<ul style="list-style-type: none">You will be valued for your skills in analysis and writingYou will bring understanding of the financial sector-specific business risks (e.g. finance, energy, . . .) and exposure to public policy and international affairsYou may be behind others on tech or business knowledge	<ul style="list-style-type: none">You will be valued for writing and analytic skills and understanding of international affairs and security studiesSome, but not all, of your colleagues will understand technology as well	<ul style="list-style-type: none">You will be valued for writing and analytic skills and understanding of international affairs and public policyMost of your colleagues will have solid technical understanding	<ul style="list-style-type: none">You will be valued for writing and analytic skills and understanding of international affairs and public policyFew others will have deep technical expertiseMany in your office will have backgrounds in law
Topics and Skills	<ul style="list-style-type: none">Espionage and intelligenceHactivismConflict and warfareInternational relationsArea and language specializationRussia, China, Iran, North KoreaSome technical understanding of attacks	<ul style="list-style-type: none">Business operations and riskMetrics and measurementContinuity and emergency responseFinancial sector and regulatory structureEnergy sector and regulatory structure	<ul style="list-style-type: none">Espionage and intelligenceConflict and warfareDiplomacyInternational normsCybersecurity strategies of US, EU, othersCyber capacity developmentInternet governanceArea and language specializationSome understanding of technology issuesCybersecurity strategies of US, EU, Russia, China, . . .Cyber capacity building	<ul style="list-style-type: none">International relations and public policyPrivacyDigital rightsInternet governanceCapacity developmentDigital divideDigital tradeOnline rightsTechnology policyCybersecurity	<ul style="list-style-type: none">International relations and public policyLaw and legislaturesEuropean UnionInternet governancePrivacyCybersecurity policySome understanding of technology issuesPrivacy/data protection
Places to Work	<ul style="list-style-type: none">CIA, NSA, DIA, DHSPrivate sector threat intel companies like FlashPoint, FireEye, CrowdStrikeFinancial institutions and other large companies	<ul style="list-style-type: none">Finance sector banks and regulatorsEnergy sector companies and regulatorsConsulting companiesCybersecurity companies, both large and boutiquesOECD	<ul style="list-style-type: none">State, DoD USD/P, Commerce NTIAThink tanksDefense companies: e.g., BAH, LMCOConsulting companiesThink-tanks or university-based research centers	<ul style="list-style-type: none">Federal: Commerce, NTIA, State, etc.Think tanks, non-profits (e.g., Access Now)UN, EUTech regulators (FCC, FTC), European Data Protection AuthoritiesOECD, World Bank/other international banks, OAS, ASEAN	<ul style="list-style-type: none">Major technology and security companies: Google, Oracle, RSA, FireEyeUp-and-coming tech startupsTech regulators (FCC, FTC), European Data Protection Authorities
Main Job Locations	<div><ul style="list-style-type: none">New YorkSan FranciscoSome international</div> <div><ul style="list-style-type: none">Washington DCLondon</div>	<div><ul style="list-style-type: none">New YorkLondon</div> <div><ul style="list-style-type: none">Washington DCParis</div>	<div><ul style="list-style-type: none">New YorkLondonDublin</div> <div><ul style="list-style-type: none">Washington DCNATOBrussels</div>	<div><ul style="list-style-type: none">New YorkSan FranciscoDublinOther international</div> <div><ul style="list-style-type: none">Washington DCLondonParis</div>	<div><ul style="list-style-type: none">Limited NY (for UN)US West CoastDublinOther capitals</div> <div><ul style="list-style-type: none">Washington DCLondonBrussels</div>
Job Titles	<ul style="list-style-type: none">Cyber threat analyst	<ul style="list-style-type: none">Cyber risk analystBusiness risk analyst	<ul style="list-style-type: none">Cyber policy analystResearcherAnalyst in international affairs	<ul style="list-style-type: none">Technology analystTechnology researcher	<ul style="list-style-type: none">Director of government affairsCyber policy analyst
Path	<ul style="list-style-type: none">Intern at threat companiesApply onlineInformational interviews	<ul style="list-style-type: none">InternshipApply onlineInformational interviews	<ul style="list-style-type: none">Intern at governmentIntern for think tanks: Atlantic Council, CFR, CSIS, New AmericaPublish op-eds and articles, which is a huge discriminatorSchedule C government appointments	<ul style="list-style-type: none">Intern at governmentIntern for think tanks: New America, Atlantic Council, CFR, CSISPublish op-eds and articles, which is a huge discriminatorSchedule C government appointments	<ul style="list-style-type: none">Intern at companiesApply onlineInformational interviewsSchedule C government appointments
SIPA Classes	<ul style="list-style-type: none">U6382 – Technology, National Security & the CitizenU6383 – Dynamics of Cyber Power and ConflictU6524 – Cybersecurity and Business RiskU8142 – Intelligence and Foreign Policy	<ul style="list-style-type: none">U6198 – Technology for International Crisis ResponseU6202 – Communications Policy in the Digital AgeU6508 – Using Big Data to Develop Public PolicyU6524 – Cybersecurity and Business RiskU8254 – The Digital Economy: Regulatory Conflicts and OpportunitiesU6975 – Internet Business Models and US Policy	<ul style="list-style-type: none">U6251 – Introduction to Cyber Threat IntelligenceU6382 – Technology, National Security & the CitizenU6383 – Dynamics of Cyber Power and ConflictU6517 – Technology, Policy and Culture in the Developing WorldU6524 – Cybersecurity and Business RiskU8142 – Intelligence and Foreign Policy	<ul style="list-style-type: none">U6135 – Civic Innovation and Building a People-Centered GovernmentU6251 – Introduction to Cyber Threat IntelligenceU6382 – Technology, National Security & the CitizenU6383 – Dynamics of Cyber Power and ConflictU6515 – Technology and the Future of Governance and Public PolicyU6517 – Technology, Policy and Culture in the Developing WorldU6975 – Internet Business Models and US Policy: How We Got to Here	<ul style="list-style-type: none">U6202 – Communications Policy in the Digital AgeU6512 – Data-Driven Approaches for Campaigns and AdvocacyU6517 – Technology, Policy and Culture in the Developing WorldU6975 – Internet Business Models and US Policy: How We Got to HereU8142 – Intelligence and Foreign Policy
Certifications and Programming Languages*	<div><ul style="list-style-type: none">AWS – Certified Solutions ArchitectCertified Ethical Hacker</div> <div><ul style="list-style-type: none">Certified Associate in Project Management (CAPM) or Project Management Professional (PMP)Kali LinuxPythonRSecurity+Splunk Level 1SQL</div> <div><ul style="list-style-type: none">Certified Information Systems Security Professional (CISSP) or Associate of (ISC)²</div>				

* This list is not exhaustive but is a useful baseline for students entering the field.