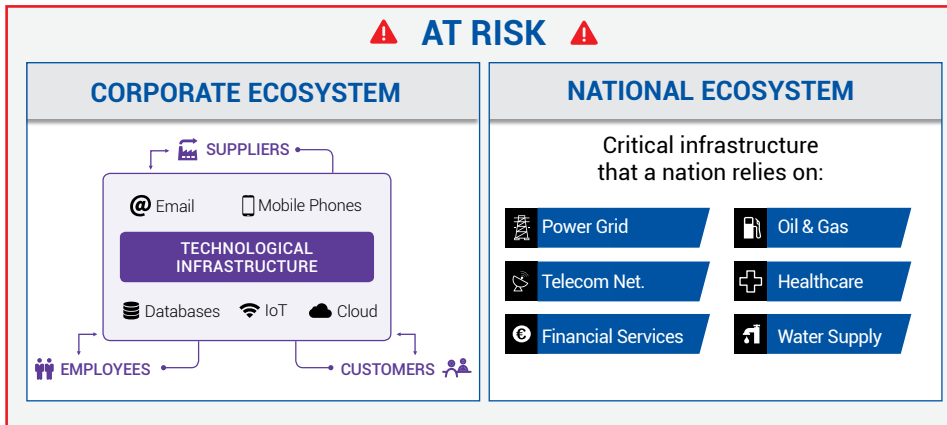


MASTER IN CYBERSECURITY

ie SCHOOL OF HUMAN SCIENCES & TECHNOLOGY

FULL-TIME 10 MONTHS OCTOBER MADRID

WHY CYBERSECURITY?



CYBERSECURITY PROFESSIONALS Secure and protect against threats



Analyze risks and threats



Design security systems



Develop response procedures



Design and implement employee IT policies

INDUSTRIES

Cybersecurity is impacting diverse industries, including:

- | | |
|---------------------------|-----------------------|
| FINANCIAL SERVICES | INSURANCE |
| RETAIL | TECHNOLOGY |
| HEALTHCARE | TRANSPORTATION |
| BANKING | CONSUMER GOODS |
| PUBLIC SECTOR | MANUFACTURING |

ROLES

Some of the roles of cybersecurity professionals:

- CYBERSECURITY CONSULTANT**
- CYBERSECURITY SECURITY ARCHITECT**
- ANALYST**
- FORENSICS INVESTIGATOR**
- ETHICAL HACKER**
- CISO / CSO**
- VULNERABILITY MANAGER**
- SECURITY / IT MANAGER**

JOBS

There will be a shortage of 2 million cybersecurity professionals by 2019
ISACA and RSA conference survey

Over the past five years, the demand for cybersecurity professionals grew 3.5 times faster than other IT jobs (12 times faster than all jobs)
IT world

The demand for the cybersecurity workforce is expected to rise to 6 million globally by 2019
Michael Brown, CEO at Symantec

Around 54% organizations have a CISO in charge of their security program
PwC The Global State of Information Security

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FOUR AREAS FOR SUCCESS

During the Master's program, you will gain practical expertise to launch or accelerate your career in cybersecurity:

CYBERSECURITY GOVERNANCE & MANAGEMENT

- Introduction to Cybersecurity: Safety vs Security
- Attacks, Threats and Security Incidents
- Risk Management, Countermeasures & Security Assessment
- New Trends in Cybersecurity: Internet of Things, Cloud Computing, and Big Data
- Standards and Best Practices: ISO 27001

IT, CYBERCRIME & RESPONSE

- Operating Systems, Storage, Methods, and Disk Architecture
- OSI Layers: Network, Communications, and Firewalls
- Monitoring and Intrusion Detection Systems
- Pentesting and System Exploitation
- Databases Management
- Profiles and Roles: Access and Control Authentication
- Software Engineering and Project Management
- Malware Analysis
- Forensic Investigation

BUSINESS, BEHAVIOR & CHANGE

- Business Fundamentals
- Individual and Team Behavior
- Leadership
- Communication and Behavioral Forensics
- Interviewing Skills and Careers
- Giving Winning Presentations

CYBER LAW, COMPLIANCE & ETHICS

- Privacy and Security Regulatory Framework
- Cybercrimes, Criminal Prosecutions, and Witness Testimony
- Audit Process, Methods, and Frameworks
- Business Continuity, Contingency, and Recovery Plans
- Compliance, Ethics, and CSR

WHY IE

★ Study at the **No.1 School in Europe** (Financial Times ranking, 2012 and 2013). Located in **Madrid**, a vibrant and global city.

🌐 **#1 Online MBA Programs** (Financial Times 2015 ranking).

🏢 **50,000 alumni** hold positions of responsibility in over 100 countries.

📍 **28 international offices** around the globe.

📄 Around **40% of students every year** receive some type of Financial Aid.

HANDS-ON CHALLENGES

You will engage in three intensive team challenges that will give you practical, hands-on experience working directly with industry experts. In each challenge, your team will present its results to a panel of experts.

CHALLENGE / THE MISSION

VULNERABILITY ANALYSIS

Your team will be provided with a real cybersecurity situation. You will work to identify the potential risks to which the company may be exposed.

FORENSICS AND MALWARE ANALYSIS

Your team will use cryptography techniques to conduct malware analysis. You will conduct cyber-exercises and prepare incident responses.

GLOBAL SECURITY AUDIT

You will conduct a corporate audit and develop and propose a solution.

3 STUDENT PROFILES



BUSINESS & TECHNOLOGY

You studied and/or are working in business or technology. You want to become an expert in identifying cyber threats and managing risk to drive protection and security.



LAW & COMPLIANCE

You studied and/or are working in law. You want to learn how to manage a cyberattack and become an expert in identifying risks and defending your company or government.



SECURITY & DEFENSE

You want a front-office job where you can define the cybersecurity strategy and be an integral part of core business and technology decisions.