

Postgraduate Diploma Preventive Cybersecurity



Postgraduate Diploma Preventive Cybersecurity

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-preventive-cybersecurity

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01 Welcome

In the Digital Age, virtually any business has the potential to suffer a cyberattack that compromises their most sensitive data. Many businesses store all their information on their devices or on the cloud, which criminals can access at the click of a button. As a result, companies must have digital security systems in place to prevent outside access. This has created a need for specialized managers who are up to date with security processes so they can intervene with preventive actions that favor the security of their company. In this context, TECH has devised this program with the most relevant information in the field.



Postgraduate Diploma in Preventive Cybersecurity
TECH Global University



“

You will have at your disposal complementary Masterclasses, taught by an internationally renowned lecturer in the field of Cybersecurity”

02

Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class center for intensive managerial skills education.



“

TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"

At TECH Global University



Innovation

The university offers an online learning model that balances the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"*Microsoft Europe Success Story*", for integrating the innovative, interactive multi-video system.



The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95% | of TECH students successfully complete their studies



Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

+100000

executives prepared each year

+200

different nationalities



Empowerment

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

+500

collaborative agreements with leading companies



Talent

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



Multicultural Context

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



Learn with the best

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



At TECH, you will have access to the most rigorous and up-to-date case analyses in academia"



Analysis

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



Academic Excellence

TECH offers students the best online learning methodology. The university combines the Relearning method (postgraduate learning methodology with the best international valuation) with the Case Study. Tradition and vanguard in a difficult balance, and in the context of the most demanding educational itinerary.



Economy of Scale

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.

03

Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you education of the highest academic level”

This program will provide you with a multitude of professional and personal advantages, among which we highlight the following:

01

A Strong Boost to Your Career

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of students achieve positive career development in less than 2 years.

02

Develop a strategic and global vision of the company

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional fields.

Our global vision of companies will improve your strategic vision.

03

Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.

04

You will take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.

05

Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.

06

Thoroughly develop business projects.

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different fields in companies.

20% of our students develop their own business idea.

07

Improve *soft skills* and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.

08

You will be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified teachers from the most prestigious universities in the world: the TECH Global University community.

We give you the opportunity to study with a team of world-renowned teachers.

04 Objectives

This Postgraduate Diploma in Preventive Cybersecurity atTECH is designed to strengthen business management skills to obtain a higher level of specialization in cybersecurity. In this particular case, the program focuses on prevention, so our students acquire the skills required to successfully manage in an increasingly popular business sector. Undoubtedly, a task that acquires an important relevance in today's society.



“

*Develop the skills you
need to manage the digital
security of your business”*

TECH makes the goals of their students their own goals too
Working together to achieve them

This Postgraduate Diploma in Preventive Cybersecurity qualifies students to:

01

Develop methodologies used in cybersecurity

04

Analyze OSINT, OWISAM, OSSTM, PTES, OWASP
Methodologies

02

Examine the intelligence cycle and establish its
application in cyberintelligence



03

Determine the role of the intelligence analyst and
the obstacles to evacuation activity

05

Establish the most common tools for
intelligence production

06

Conduct a risk analysis and understand the metrics used

08

Detail the current cybersecurity regulations



07

Concretize the options for anonymity and the use of networks such as TOR, I2P, FreeNet

09

Compile the information available in public media

10

Scan networks for active mode information

11

Develop testing laboratories

12

Catalog and assess the different vulnerabilities of the systems

13

Identify the various methodologies used in hacking

14

Establish the necessary requirements for the correct operation of an application in a secure manner

15

Examine log files to understand error messages



16

Analyze the different events and decide what to show to the user and what to keep in the logs

18

Evaluate appropriate documentation for each phase of development

19

Specify the behavior of the server to optimize the system

17

Generate a sanitized, easily verifiable, and quality code

20

Develop modular, reusable and maintainable code



05

Structure and Content

Business professionals in the Digital Age are accustomed to using networks and, therefore, are aware of the risks involved. In this context, academic programs on computer security for business professionals are needed, since the latter are increasingly expected to be able to apply techniques and tools aimed at preventing potential cyberattacks. Therefore, the structure of this program is oriented to facilitate the study of business professionals in a field that is becoming more and more relevant.



“

*Improve your knowledge of
cybersecurity and apply what you
have learned to your company”*

Syllabus

TECH Global University's Postgraduate Diploma in Preventive Cybersecurity is an intensive program that prepares students to address business challenges and decisions in the field of IT security. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Throughout 450 hours of study, students will study a multitude of practical cases through individual work, which will allow them to acquire the necessary skills to successfully develop in their daily practice. It is, therefore, an authentic immersion in real business situations.

This program deals with the different areas of a company in depth, and it is designed for managers to understand cybersecurity from a strategic, international and innovative perspective.

A program designed especially for students, focused on their professional development, which prepares them to achieve excellence in the field of information security management and administration. A program that understands your needs and those of your company through innovative content based on the latest trends, and supported by the best educational methodology and an exceptional faculty, which will provide you with the skills to solve critical situations in a creative and efficient way.

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules:

Module 1

Cyberintelligence and Cybersecurity

Module 2

Ethical Hacking

Module 3

Secure Development



Where, When and How is it Taught?

TECH offers students the opportunity to take this Postgraduate Diploma in Preventive Cybersecurity entirely online. Throughout the 6 months of the educational program, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.

Module 1. Cyberintelligence and Cybersecurity

1.1. Cyberintelligence

- 1.1.1. Cyberintelligence
 - 1.1.1.1. Intelligence
 - 1.1.1.1.1. Intelligence Cycle
 - 1.1.1.2. Cyberintelligence
 - 1.1.1.3. Cyberintelligence and Cybersecurity
- 1.1.2. The Intelligence Analyst

1.2. Cybersecurity

- 1.2.1. Security Layers
- 1.2.2. Identification of Cyber Threats
 - 1.2.2.1. External Threats
 - 1.2.2.2. Internal Threats
- 1.2.3. Adverse Actions
 - 1.2.3.1. Social Engineering
 - 1.2.3.2. Commonly Used Methods

1.3. Intelligence Techniques and Tools

- 1.3.1. OSINT
- 1.3.2. SOCMINT
- 1.3.3. HUMINT
- 1.3.4. Linux Distributions and Tools
- 1.3.5. OWISAM
- 1.3.6. OWISAP
- 1.3.7. PTES
- 1.3.8. OSSTM

1.4. Evaluation Methodologies

- 1.4.1. Intelligence Analysis
- 1.4.2. Techniques for Organizing Acquired Information
- 1.4.3. Reliability and Credibility of Information Sources
- 1.4.4. Analysis Methodologies
- 1.4.5. Presentation of Intelligence Results

1.5. Audits and Documentation

- 1.5.1. Computer Security Auditing
- 1.5.2. Documentation and Permits for Auditing
- 1.5.3. Types of Audits
- 1.5.4. Deliverables
 - 1.5.4.1. Technical Report
 - 1.5.4.2. Executive Report

1.6. Anonymity in the Network

- 1.6.1. Use of Anonymity
- 1.6.2. Anonymity Techniques (Proxy, VPN)
- 1.6.3. TOR, Freenet and IP2 Networks

1.7. Threats and Types of Security

- 1.7.1. Types of Threats
- 1.7.2. Physical Security
- 1.7.3. Network Security
- 1.7.4. Logical Security
- 1.7.5. Web Application Security
- 1.7.6. Security on Mobile Devices

1.8. Regulations and Compliance

- 1.8.1. The GDPR
- 1.8.2. ISO 27000 Family
- 1.8.3. NIST Cybersecurity Framework
- 1.8.4. PIC 9
- 1.8.5. ISO 27032
- 1.8.6. Cloud Regulations
- 1.8.7. SOX
- 1.8.8. ICP

1.9. Risk Analysis and Metrics

- 1.9.1. Extent of Risk
- 1.9.2. The Assets
- 1.9.3. Threats
- 1.9.4. Vulnerabilities
- 1.9.5. Risk Evaluation
- 1.9.6. Risk Treatment

1.10. Important Cybersecurity Agencies

- 1.10.1. NIST
- 1.10.2. OEA
- 1.10.3. UNASUR-PROSUR

Module 2. Ethical Hacking

2.1. Work Environment

- 2.1.1. Linux Distributions
 - 2.1.1.1. Kali Linux - Offensive Security
 - 2.1.1.2. Parrot OS
 - 2.1.1.3. Ubuntu

2.1.2. Virtualization Systems

- 2.1.3. Sandboxes
- 2.1.4. Deployment of Laboratories

2.2. Methods

- 2.2.1. OSSTM
- 2.2.2. OWASP
- 2.2.3. NIST
- 2.2.4. PTES
- 2.2.5. ISSAF

2.3. Footprinting

- 2.3.1. Open-Source Intelligence (OSINT)
- 2.3.2. Search for Data Breaches and Vulnerabilities
- 2.3.3. Use of Passive Tools

2.4. Network Scanning

- 2.4.1. Scanning Tools
 - 2.4.1.1. Nmap
 - 2.4.1.2. Hping3
 - 2.4.1.3. Other Scanning Tools

2.4.2. Scanning Techniques

- 2.4.3. Firewall and IDS Avoidance Techniques
- 2.4.4. Banner Grabbing
- 2.4.5. Network Diagrams

2.5. Enumeration

- 2.5.1. SMTP Enumeration
- 2.5.2. DNS Enumeration
- 2.5.3. NetBIOS and Samba Enumeration
- 2.5.4. LDAP Enumeration
- 2.5.5. SNMP Enumeration
- 2.5.6. Other Enumeration Techniques

2.6. Vulnerability Analysis

- 2.6.1. Vulnerability Scanning Solutions
 - 2.6.1.1. Qualys
 - 2.6.1.2. Nessus
 - 2.6.1.3. CFI LanGuard

- 2.6.2. Vulnerability Scoring Systems
 - 2.6.2.1. CVSS
 - 2.6.2.2. CVE
 - 2.6.2.3. NVD

2.7. Attacks on Wireless Networks

- 2.7.1. Hacking Methodology in Wireless Networks
 - 2.7.1.1. Wi-Fi Discovery
 - 2.7.1.2. Traffic Analysis
 - 2.7.1.3. Aircrack Attacks
 - 2.7.1.3.1. WEP Attacks

- 2.7.1.3.2. WPA/WPA2 Attacks
- 2.7.1.4. Evil Twin Attacks
- 2.7.1.5. Attacks on WPS
- 2.7.1.6. Jamming
- 2.7.2. Tools for Wireless Security

2.8. Hacking of Web Servers

- 2.8.1. Cross Site Scripting
- 2.8.2. CSRF
- 2.8.3. Session Hijacking
- 2.8.4. SQL Injection

2.9. Exploiting Vulnerabilities

- 2.9.1. Use of Known Exploits
- 2.9.2. Use of Metasploit
- 2.9.3. Use of Malware
 - 2.9.3.1. Definition and Scope
 - 2.9.3.2. Malware Generation
 - 2.9.3.3. Bypass of Antivirus Solutions

2.10. Persistence

- 2.10.1. Rootkits Installation
- 2.10.2. Using Ncat
- 2.10.3. Use of Scheduled Tasks for Backdoors
- 2.10.4. User Creation
- 2.10.5. HIDS Detection

Module 3. Secure Development

3.1. Secure Development

- 3.1.1. Quality, Functionality and Safety
- 3.1.2. Confidentiality, Integrity and Availability
- 3.1.3. Software Development Life Cycle

3.2. Requirements Phase

- 3.2.1. Authentication Control
- 3.2.2. Role and Privilege Control
- 3.2.3. Risk-oriented Requirements
- 3.2.4. Privilege Approval

3.3. Analysis and Design Phases

- 3.3.1. Component Access and System Administration
- 3.3.2. Audit Trails
- 3.3.3. Session Management
- 3.3.4. Historical Data
- 3.3.5. Proper Error Handling
- 3.3.6. Separation of Functions

3.4. Implementation and Coding Phase

- 3.4.1. Ensuring the Development Environment
- 3.4.2. Preparation of Technical Documentation
- 3.4.3. Secure Codification
- 3.4.4. Communications Security

3.5. Good Secure Coding Practices

- 3.5.1. Input Data Validation
- 3.5.2. Coding of Output Data
- 3.5.3. Programming Style
- 3.5.4. Change Log Management
- 3.5.5. Cryptographic Practices
- 3.5.6. Error and Log Management
- 3.5.7. File Management
- 3.5.8. Memory Management
- 3.5.9. Standardization and Reuse of Security Functions

3.6. Server Preparation and Hardening

- 3.6.1. Management of Users, Groups and Roles on the Server
- 3.6.2. Software Installation
- 3.6.3. Server Hardening
- 3.6.4. Robust Configuration of the Application Environment

3.7. Database Preparation and Hardening

- 3.7.1. Database Engine DD
- 3.7.2. Create Your Own User for the Application
- 3.7.3. Assigning the Required Privileges to the User
- 3.7.4. Database Hardening DD

3.8. Testing Phase

- 3.8.1. Quality Control in Security Controls
- 3.8.2. Phased Code Inspection
- 3.8.3. Checking Configuration Management
- 3.8.4. Black Box Testing

3.9. Preparing the Transition to Production

- 3.9.1. Perform Change Control
- 3.9.2. Carry out Production Changeover Procedure
- 3.9.3. Rollback Procedure
- 3.9.4. Pre-production Testing

3.10. Maintenance Phase

- 3.10.1. Risk-based Assurance
- 3.10.2. White Box Security Maintenance Testing
- 3.10.3. Black box Safety Maintenance Tests



06

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





“

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

TECH Business School uses the Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”



This program prepares you to face business challenges in uncertain environments and achieve business success.



A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.

“ *You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments”*

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

Our program prepares you to face new challenges in uncertain environments and achieve success in your career.

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

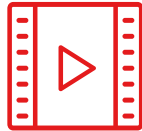
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



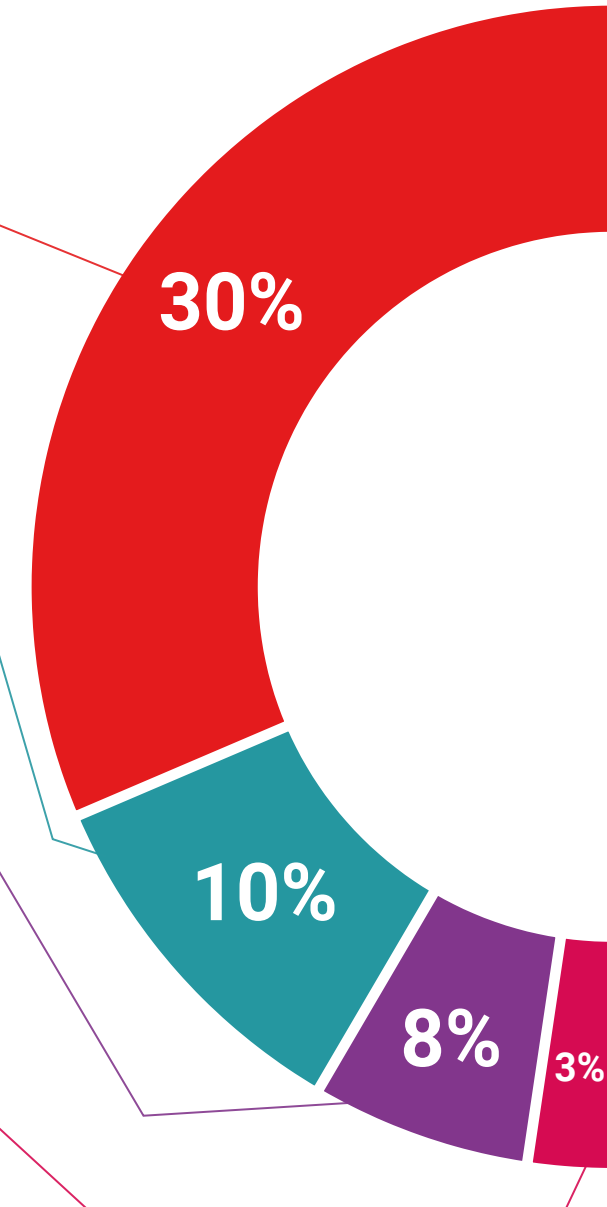
Management Skills Exercises

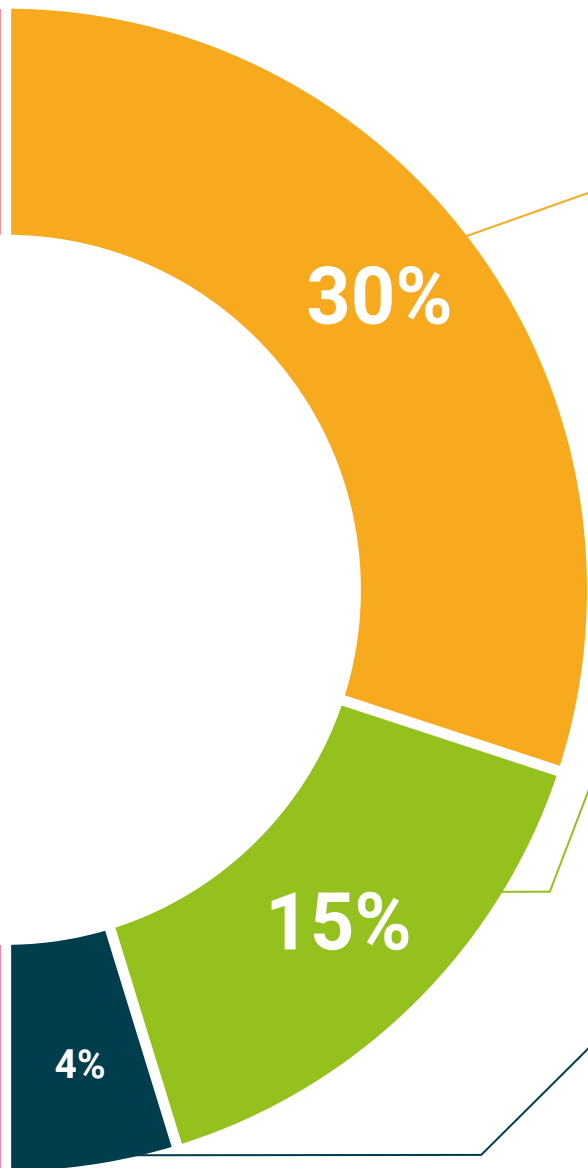
They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best senior management specialists in the world.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



07

Our Students' Profiles

Postgraduate Diploma in Preventive Cybersecurity is a high-level academic program aimed at business managers or middle managers who wish to improve their training through quality education. 21st century students who, being aware of network dangers for companies, want to expand their knowledge in relevant areas in any sector and who, in order to protect their businesses and the companies where they work, decide to acquire a higher degree of specialization in computer security.





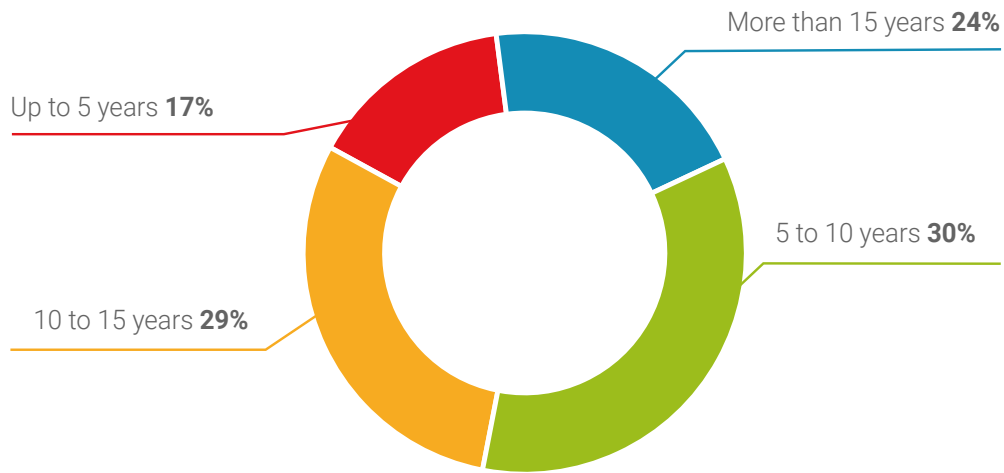
“

The students on this program are professionals with extensive experience who seek to expand their knowledge in an area as complex as cybersecurity”

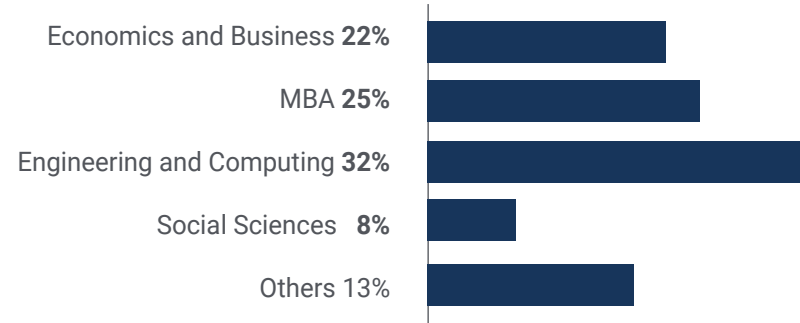
Average Age

Between **35** and **45** years old

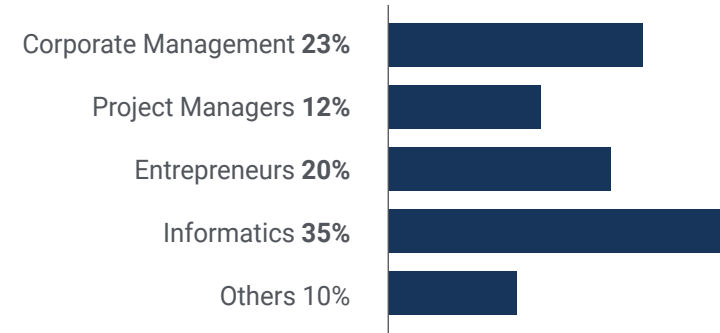
Years of Experience



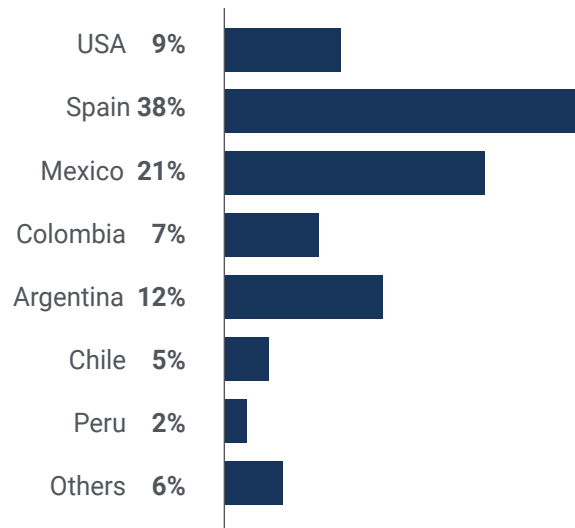
Training



Educational Profile



Geographical Distribution



Jaime Díaz

Chief Revenue Officer

"I'd been looking for a program to expand my knowledge in cybersecurity for a while, since, though my company has specialized computer equipment, I've always thought that I myself should be in charge of those specific issues in case of a problem. Luckily, I found this TECH Postgraduate Diploma, which opened the doors to an exciting area of knowledge"

08

Course Management

TECH has brought together a high-level teaching team to elaborate this Postgraduate Diploma in Preventive Cybersecurity, both for their knowledge and extensive experience in the field. Professionals specialized in cybersecurity, who understand the need for business professionals to specialize in the field, have designed an easy to understand comprehensive syllabus that will prove useful in professional practice.





“

Extensively experienced professors will teach you the fundamentals of cybersecurity”

International Guest Director

Dr. Frederic Lemieux is internationally recognized as an innovative expert and inspirational leader in the fields of **Intelligence, National Security, Homeland Security, Cybersecurity and Disruptive Technologies**. His constant dedication and relevant contributions in Research and Education position him as a key figure in the **promotion of security and the understanding of today's** emerging technologies. During his professional career, he has conceptualized and directed cutting-edge academic programs in several renowned institutions, such as the **University of Montreal, George Washington University and Georgetown University**.

Throughout his extensive background, he has published multiple books of great relevance, all of them related to **criminal intelligence, policing, cyber threats and international security**. He has also made a significant contribution to the field of **Cybersecurity** with the publication of numerous articles in academic journals, examining crime control during major disasters, counter-terrorism, intelligence agencies, and police cooperation. In addition, he has been a panelist and keynote speaker at various national and international conferences, establishing himself as a reference in the academic and professional arena.

Dr. Lemieux has held editorial and evaluative roles in different academic, private and governmental organizations, reflecting his influence and commitment to excellence in his field of expertise. As such, his prestigious academic career has led him to serve as Professor of Practice and Faculty Director of the MPS programs in **Applied Intelligence, Cybersecurity Risk Management, Technology Management and Information Technology Management** at **Georgetown University**.



Dr. Lemieux, Frederic

- Director of the Master's Degree in Cybersecurity Risk Management at Georgetown, Washington, United States
- Director of the Master in Technology Management at Georgetown University
- Director of the Master in Applied Intelligence at Georgetown University
- Professor of Internships at Georgetown University
- PhD in Criminology from the School of Criminology at the University of Montreal
- B.A. in Sociology and Minor Degree in Psychology from Laval University
- Member of: New Program Roundtable Committee, Georgetown University

“

Thanks to TECH you will be able to learn with the best professionals in the world"

Management



Ms. Fernández Sapena, Sonia

- ♦ Trainer in Computer Security and Ethical Hacking at the National Reference Center of Getafe in Computer Science and Telecommunications in Madrid
- ♦ Certified E-Council instructor
- ♦ Trainer in the following certifications: EXIN Ethical Hacking Foundation and EXIN Cyber & IT Security Foundation. Madrid
- ♦ Accredited expert trainer by the CAM of the following certificates of professionalism: Computer Security (IFCT0190), Voice and Data Network Management (IFCM0310), Departmental Network Administration (IFCT0410), Alarm Management in Telecommunications Networks (IFCM0410), Voice and Data Network Operator (IFCM0110), and Internet Services Administration (IFCT0509)
- ♦ External collaborator CSO/SSA (Chief Security Officer/Senior Security Architect) at the University of the Balearic Islands
- ♦ Degree in Computer Engineering from the University of Alcalá de Henares, Madrid
- ♦ Master's Degree in DevOps: Docker and Kubernetes. Cas-Training
- ♦ Microsoft Azure Security Technologies. E-Council



09

Impact on Your Career

Completing this program will be an added value to business professionals' qualifications, as it offers in-depth knowledge of an external area that can be of great use to for those who need to oversee IT processes that may harbor a harmful external element that affects the entire organization. Therefore, this program will be an added value to the training of managers.



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*Become a data analytics professional
and a key player in the definition and
oversight of business strategies”*

Are you ready to take the leap? Excellent professional development awaits you

The Postgraduate Diploma in Preventive Cybersecurity at TECH Global University is an intensive and highly valuable program aimed at improving students' professional skills in an area of fierce competition. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

Those who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH.

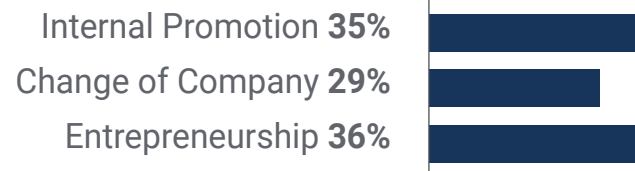
A unique program to improve both personally and professionally.

The completion of this program will allow you to better manage the security of digital processes.

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than **25.22%** for our students.



10

Benefits for Your Company

This TECH program will bring great benefits to both our students and the companies where they work, as it contributes to raising an organization's talent to its maximum potential by specializing high-performing leaders. Thanks to this program, business professionals will be able to bring added value to their company by having the necessary skills to oversee cybersecurity processes.





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Study at TECH and bring new preventive cybersecurity tools to your company to avoid potential network attacks”

Developing and retaining talent in companies is the best long-term investment.

01

Growth of talent and intellectual capital

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.

02

Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.

03

Building agents of change

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.

04

Increased international expansion possibilities

Thanks to this program, the company will come into contact with the main markets in the world economy.



05

Project Development

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.

06

Increased competitiveness

This program will equip students with the skills to take on new challenges and drive the organization forward.

11

Certificate

The Postgraduate Diploma in Preventive Cybersecurity guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



“

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This program will allow you to obtain your **Postgraduate Diploma in Preventive Cybersecurity** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Preventive Cybersecurity**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



Postgraduate Diploma Preventive Cybersecurity

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Global University**
- » Credits: **18 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

Postgraduate Diploma Preventive Cybersecurity