

# Postgraduate Certificate

## Host Cybersecurity





## Postgraduate Certificate Host Cybersecurity

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

Website: [www.techtitute.com/us/school-of-business/postgraduate-certificate/host-cybersecurity](http://www.techtitute.com/us/school-of-business/postgraduate-certificate/host-cybersecurity)



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01

# Welcome

The use of the Internet has intensified in recent times, both at home and in business, since, in most cases, terminals are connected through the same server. Security in this area needs to be structured in layers, like a chain, and will only be as strong as the weakest link in the chain. The complexity of this area means that more and more business professionals are choosing to learn more about it to prevent potential cyber threats to their companies. This program presents the main threats to home users and servers so that managers can take appropriate measures and be alert to potential situations. In this way, understanding the behavior of equipment and environments will provide the basis for detecting abnormalities and combating them. Undoubtedly, this program will become a key element in the training of business professionals who seek to expand their knowledge in related and useful areas in their daily work.



Postgraduate Certificate in Host Cybersecurity.  
TECH Global University

“

*A fundamental program to acquire specific knowledge that will be of great use to improve cybersecurity for company servers”*

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.



## 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”*

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



### 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* methodology (the most internationally recognized postgraduate learning methodology) with Harvard Business School case studies. A complex balance of traditional and state-of-the-art methods, within the most demanding academic framework.



### 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.*

**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.

**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.

**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.*

*45% of graduates are promoted internally.*

## Access to a powerful network of contacts

05

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.*

## Thoroughly develop business projects

06

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 program has been designed with the main objective of offering business professionals the necessary training in Host Cybersecurity. Students will be able to access the latest information in the field, which will help them develop the skills required to act with greater fluency in their daily practice. A Postgraduate Certificate that will be essential for their professional practice.

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*This program will help you develop  
the skills required to implement  
actions to prevent network attacks"*

**TECH makes the goals of their students their own goals too**

**Working together to achieve them**

The Postgraduate Certificate in Host Cybersecurity qualifies students to:

**01**

Assessing the security of user equipment and servers

**02**

Examine potential threats based on the usage environment

**03**

Analyze solutions for each threat

**04**

Develop appropriate usage policies

**05**

Specify personal and professional data backup policies



06

Assess the different tools to provide solutions to specific security problems



07

Establish mechanisms to have an up-to-date system

08

Determine system access rules

09

Screen and classify mails to avoid frauds

10

Generate lists of allowed software on the system

05

# Structure and Content

This TECH Global University Postgraduate Certificate has been designed to meet the academic needs of business professionals, who, though extensively experienced and qualified in different business areas: finance, accounting, logistics, communication, etc., have neglected the study of more computerized subjects, which are absolutely necessary for Chief Revenue Officers or other managers, as they aid in applying security techniques to protect the digital information they handle. Therefore, this program provides the latest information on host cybersecurity.



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*The curriculum has been structured for students to self-manage their learning”*

## Syllabus

The Postgraduate Certificate in Host Cybersecurity is an intensive program that prepares students to face challenges and business decisions in computer security. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Throughout 150 hours of study, you will analyze a multitude of practical cases through individual work, which will allow you to acquire the necessary skills to develop successfully in your 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.

The program is carried out in six weeks and is divided into one module:

**Module 1****Host Security**



### Where, When and How is it Taught?

TECH offers students the opportunity to take this Postgraduate Certificate in Host Cybersecurity entirely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

**Module 1. Host Security****1.1. Backup Copies**

- 1.1.1. Backup Strategies
- 1.1.2. Tools for Windows
- 1.1.3. Tools for Linux
- 1.1.4. Tools for MacOS

**1.2. User Antivirus**

- 1.2.1. Types of Antivirus
- 1.2.2. Antivirus for Windows
- 1.2.3. Antivirus for Linux
- 1.2.4. Antivirus for MacOS
- 1.2.5. Antivirus for Smartphones

**1.3. Intrusion Detection-HIDS**

- 1.3.1. Intrusion Detection Methods
- 1.3.2. Sagan
- 1.3.3. Aide
- 1.3.4. Rkhunter

**1.4. Local Firewall**

- 1.4.1. Firewalls for Windows
- 1.4.2. Firewalls for Linux
- 1.4.3. Firewalls for MacOS

**1.5. Password Managers**

- 1.5.1. Password
- 1.5.2. LastPass
- 1.5.3. KeePass
- 1.5.4. StickyPassword
- 1.5.5. RoboForm

**1.6. Phishing Detectors**

- 1.6.1. Manual Phishing Detection
- 1.6.2. Antiphishing Tools

**1.7. Spyware**

- 1.7.1. Avoidance Mechanisms
- 1.7.2. Antispyware Tools

**1.8. Trackers**

- 1.8.1. Measures to Protect the System
- 1.8.2. Anti-Tracking Tools

**1.9. EDR- End point Detection and Response**

- 1.9.1. EDR System Behavior
- 1.9.2. Differences between EDR and Antivirus
- 1.9.3. The Future of EDR Systems

**1.10. Control Over Software Installation**

- 1.10.1. Repositories and Software Stores
- 1.10.2. Lists of Permitted or Prohibited Software
- 1.10.3. Update Criteria
- 1.10.4. Software Installation Privileges



*A global and comprehensive educational experience in Host Cybersecurity"*

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.



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*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.*



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

### 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.

## 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**

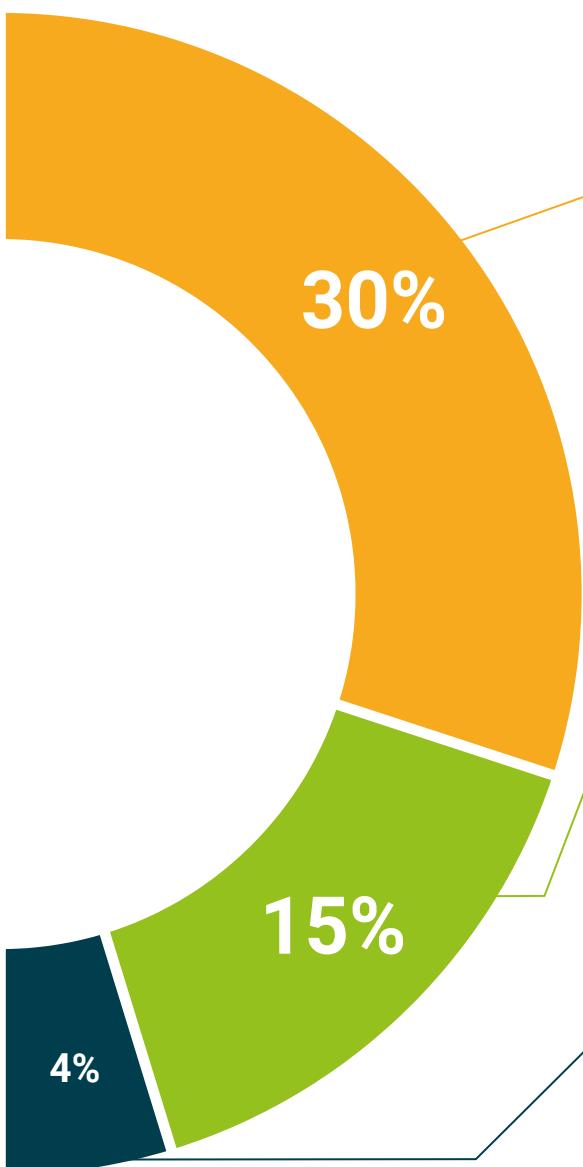
Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.

30%

10%

8%

3%



#### 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.



#### 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

Students on this TECH Global University Postgraduate Certificate in Host Cybersecurity are business professionals with extensive experience in the field, who, aware of network dangers and threats to computer systems, seek to expand their knowledge in this area. Undoubtedly, professionals committed to their work and to the needs of their companies, who do their utmost to improve their daily practice.



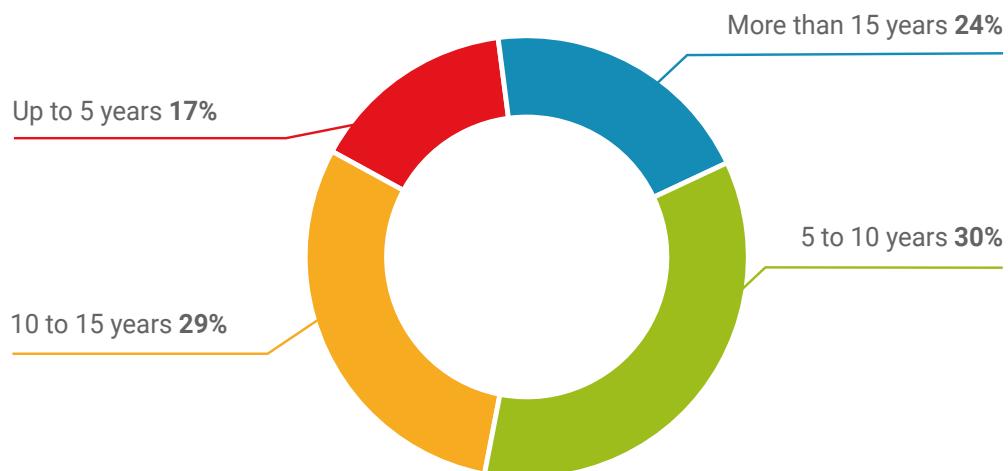
66

*Students with extensive business experience are looking for an opportunity to improve their knowledge of cybersecurity"*

### Average Age

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

### Years of Experience



### Training

Economics and Business 22%

MBA 25%

Engineering and Computing 32%

Social Sciences 8%

Others 13%



### Educational Profile

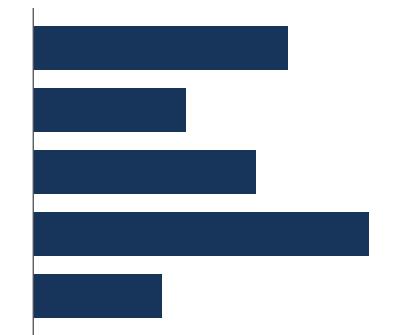
Corporate Management 23%

Project Managers 12%

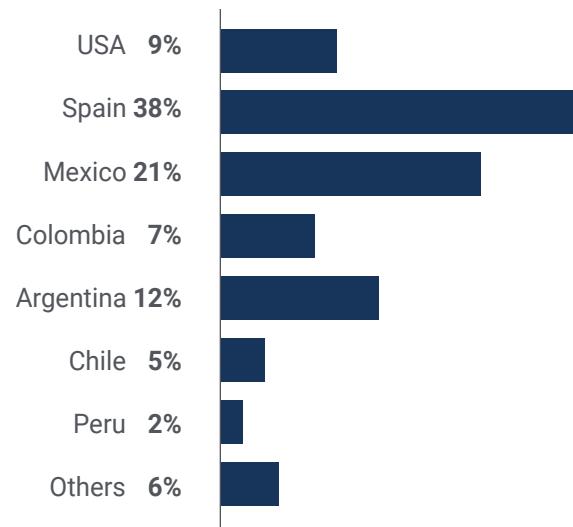
Entrepreneurs 20%

Informatics 35%

Others 10%



## Geographical Distribution



## Jaime Díaz

Chief Revenue Officer

*"This program has given me the opportunity to understand the main IT threats that my company may suffer, providing me with knowledge of the tools and actions that I can put into practice to avoid them. Its 100% digital format was absolutely crucial for me"*

08

# Course Management

TECH Global University has selected for this program a large team of experts in cybersecurity. Professors with extensive experience who have compiled the latest and most useful information for business professionals, who, even if they have no previous knowledge in computer science, will be able to get up to date and apply different tools to protect their software. Undoubtedly, the best teaching staff on the subject in education today.



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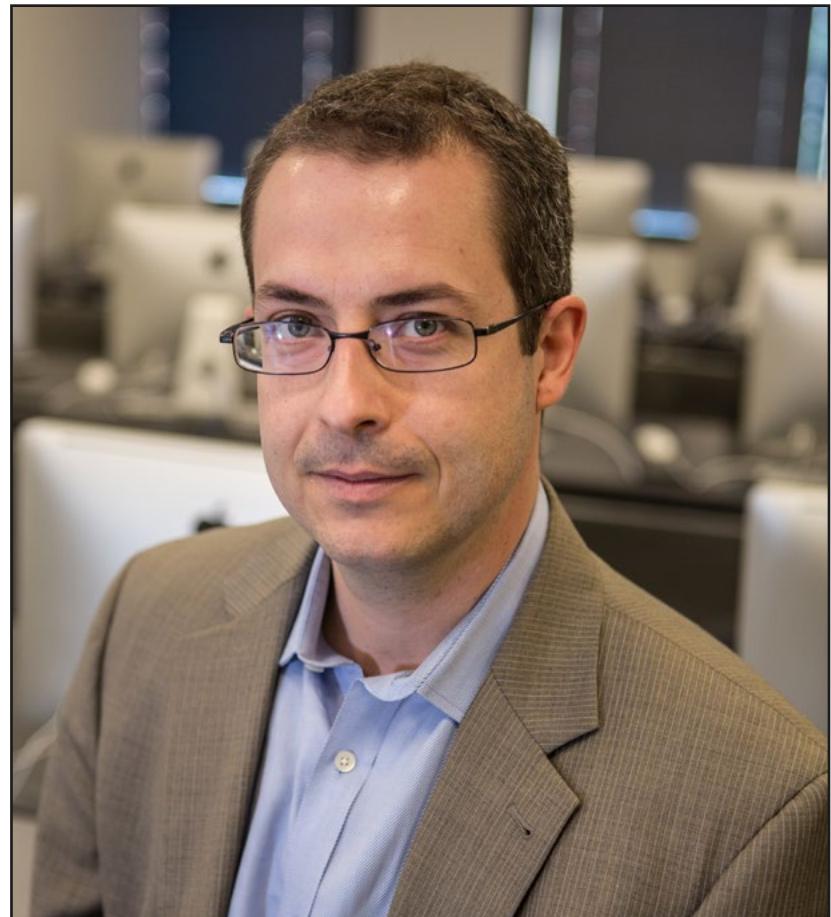
*A high-level teaching staff that has  
compiled the latest information in the field"*

## International Guest Director

Dr. Frederic Lemieux is internationally recognized as an innovative expert and inspirational leader in the fields of **Intelligence, National Security, Internal 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 at various 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 related to **criminal intelligence, policing, cyber threats and international security**. He has also contributed significantly to the field of Cybersecurity with the publication of numerous articles in academic journals, which examine 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

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- Researcher in Intelligence, Cybersecurity and Disruptive Technologies at Georgetown University
- Director of the Master's Program in Information Technology Management at Georgetown University
- Director of the Master in Technology Management at Georgetown University
- Director of the Master in Cybersecurity Risk Management at Georgetown University
- Director of the Master's Program in Applied Intelligence at Georgetown University
- Professor of Internship at Georgetown University
- PhD in Criminology from the School of Criminology, University of Montreal
- B.A. in Sociology, Minor Degree in Psychology, University of Laval, France
- Member of New Program Roundtable Committee, by Georgetown University

“

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

## Management



### **Ms. Fernández Sapena, Sonia**

- Computer Security and Ethical Hacking Trainer. Getafe National Reference Center for Informatics and Telecommunications. Madrid
- Certified E-Council instructor. Madrid
- Trainer in the following certifications: EXIN Ethical Hacking Foundation y 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)
- Colaboradora externa CSO/SSA (Chief Security Officer/Senior Security Architect). University of the Balearic Islands
- Computer Engineer. Alcalá de Henares University. Madrid
- Master's Degree in DevOps: Docker and Kubernetes. Cas Training. Madrid
- Microsoft Azure Security Technologies. E-Council. Madrid



```
<!DOCTYPE html>
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    <title>Reg CSS</title>
  </head>
  <body>
    <div class="afr1">
      <div class="afr2"></div>
      <div class="afr3">
        <div class="afr4"></div>
      </div>
    </div>
    <h1>Registration</h1>
    <p>Many fields</p>
    <p>And we have some question:</p>
    <!-- Add a box here -->
    <label for="subscribe-field">Would you like to receive the news about our new proposals?</label>
    <input type="submit" value="Send">
  </body>
</html>
```

09

# Impact on Your Career

In recent years, specialization in cybersecurity has been increasingly in demand in the business world, as managers need to monitor and keep abreast of everything that happens in the company. This training provides them with sufficient management knowledge to work in this area. For this reason, TECH Global University offers students this program, which will prove essential for their professional development.



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*This high-level program will be critical to the professional development of company executives"*

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

The TECH Global University Postgraduate Certificate in Host Cybersecurity is an intensive and highly valuable program aimed at improving students' professional skills in a fiercely competitive field. 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.

*This Postgraduate Certificate will help you to give a professional turn to your career.*

*Achieve your professional goals by taking this comprehensive program, which will be essential to enhance your skills.*

**Time of Change**



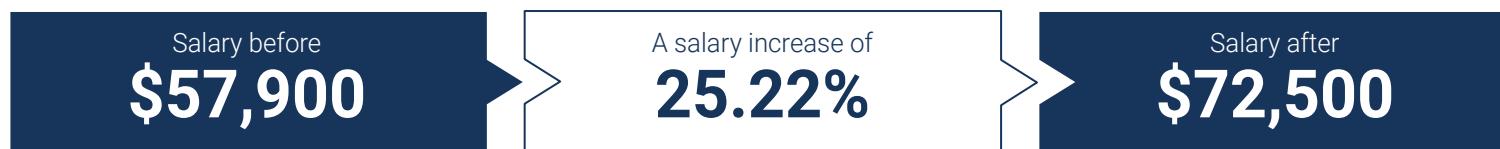
**Type of Change**



## Salary Increase

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



10

# Benefits for Your Company

Studies in cybersecurity are no longer exclusive to IT professionals, as they have moved into other fields where it is essential to apply IT security techniques and tools to prevent potential network attacks. In this case, the program has been designed for business professionals, who will be able to bring to their work a new vision and work method where network security is a priority.



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*Bring a new competency  
value to your company"*

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

### **Growth of talent and intellectual capital**

**01**

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

---

### **Retaining high-potential executives to avoid talent drain**

**02**

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

### **Building agents of change**

**03**

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

---

### **Increased international expansion possibilities**

**04**

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



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*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 Certificate in Host 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 Certificate in Host Cybersecurity**

ECTS: **6**

Official N° of Hours: **150 h.**





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