Postgraduate Certificate
DeFi, Wallets and Security

tech *technological university*

Postgraduate Certificate
DeFi, Wallets and Security

» Modality: **online**
» Duration: **6 weeks**
» Certificate: **TECH Technological University**
» Dedication: **16h/week**
» Schedule: **at your own pace**
» Exams: **online**
» Aimed at: **University graduates who have previously completed any of the qualifications in the field of Computer Science, Economics, Finance, Technology, Innovation or *Blockchain* Research.**

Website: **www.techtitute.com/us/school-of-business/postgraduate-certificate/defi-wallets-security**

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01
Welcome

In a digital world, cryptocurrencies have become a fundamental part of the global economy. In this sense, it is important for users to have a thorough understanding of how the various digital wallets work. In this way, they will protect their assets from threats such as hacks or identity theft. In turn, this requires experts in this field to be up to date with the latest technological trends. For this reason, TECH has implemented this program, so that graduates minimize the risks of this type of investment. In addition, its methodology is 100% online to ensure that students have greater convenience and flexibility.

Postgraduate Certificate in DeFi, Wallets and Security
TECH Technological University

" At TECH you will develop wallet applications for iOs and Android devices thanks to this very complete program"

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

" *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 Technological 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 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 Technological University community.

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

Objectives

This academic pathway, developed by a distinguished faculty, will enable students to become *Blockchain*experts. The syllabus will delve into the various cryptocurrencies that can be stored in a digital wallet. In this way, graduates will apply various security measures to protect their digital assets. Likewise, they will master the variety of existing *Wallets* and expand their knowledge of advanced security thanks to the Relearning method based on repetition and passive and instantaneous learning.

"

With this program you will develop specialized knowledge in the most popular lending and staking platforms, thanks to the excellent 100% online learning format"

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

The **Postgraduate Certificate in DeFi, Wallets and Security** enable the students to:

01 Acquisition of the skills necessary to maximize passive income through the effective implementation of DeFi strategies

**02** In-depth understanding of advanced DeFi strategies and passive income in the cryptocurrency and blockchain ecosystem

03 Identifying DeFi's advantages, including global access and transparency, and analyzing challenges, such as security and regulation

04 Applying the latest trends in yield farming and participation in DAOs

05 Proficiency in a variety of digital wallets, executing rigorous security practices
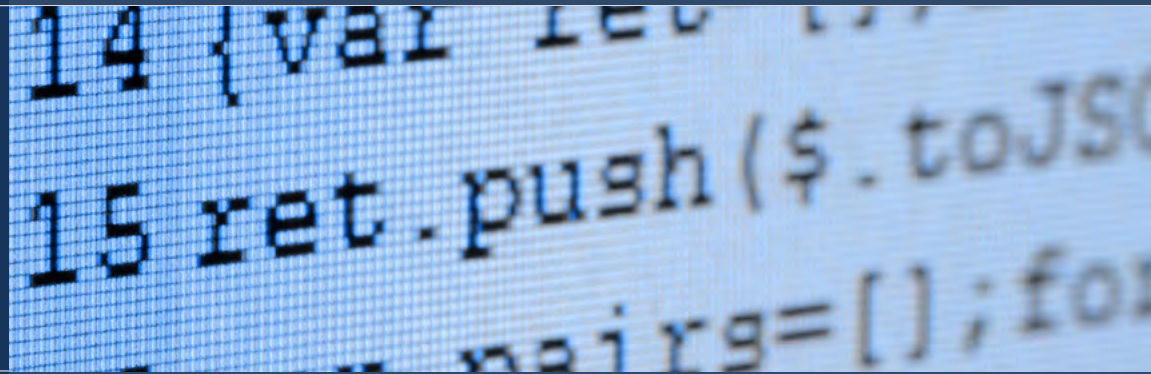
06 Ability to research case studies of hacks and losses of funds related to digital wallets to learn from common mistakes

08 Master the most popular lending and stakingplatforms, using them efficiently

09 Control of the essential strategies and tools used in yield farming in order to maximize returns on cryptocurrency investments

07 Understanding the fundamental concepts of cryptocurrency lending, including the process, types of loans, and interest rates
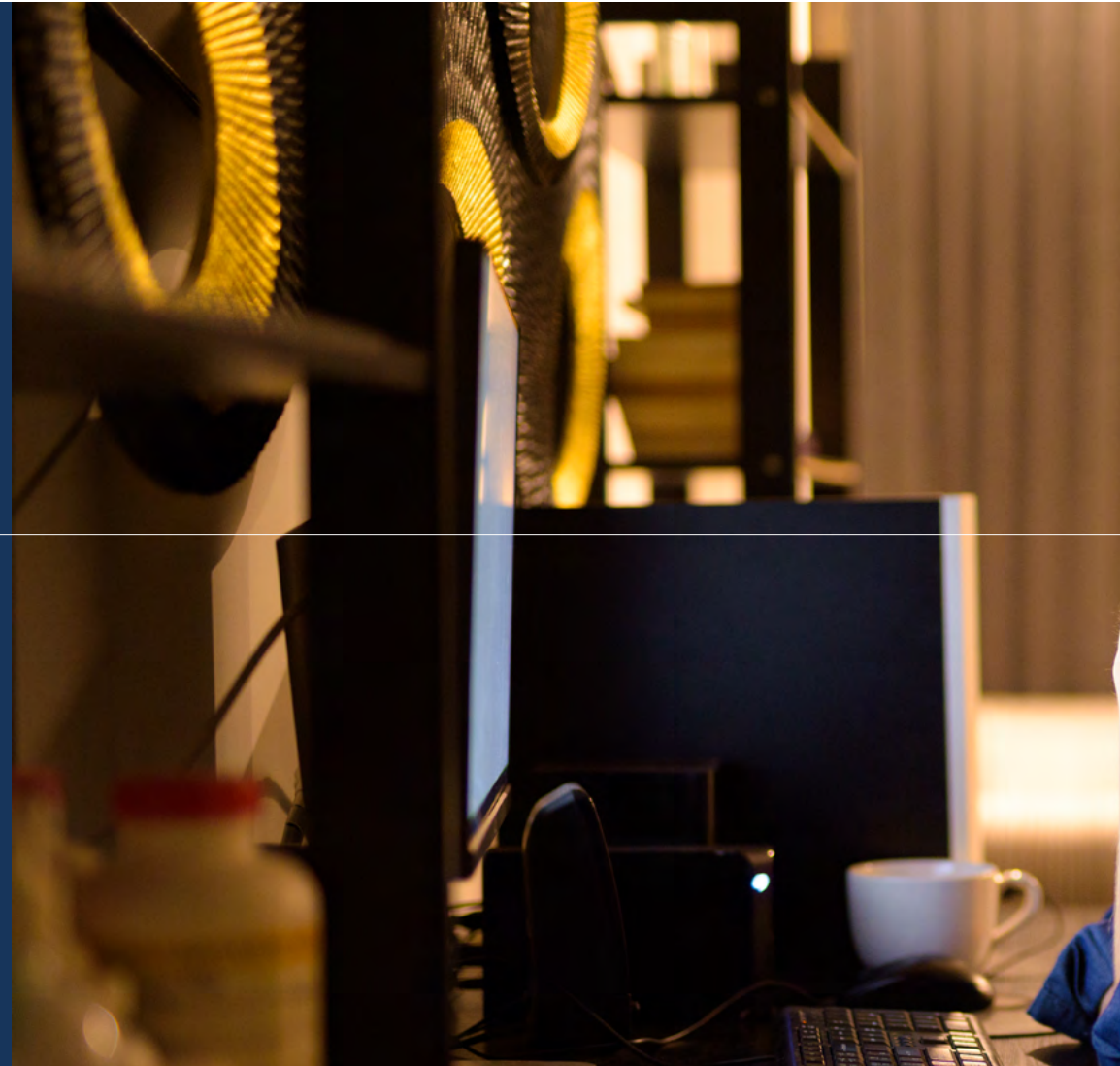
10 Application of the most commonly used DEX protocols such as Uniswap, SushiSwap and PancakeSwap

11 Understand the legal or regulatory implications of DEX and its relationship with financial and supervisory authorities

12 Acquisition of specialized knowledge on how to evaluate and select suitable assets for tokenization

13 Insight into how DeFi is redefining financial transactions, economic inclusion and traditional intermediation

14 Assessment of the risks, challenges and opportunities in the crypto space considering legal, ethical and sustainable aspects

05
Structure and Content

The Postgraduate Certificate in DeFi, Wallets and Security is based on a 100% online methodology to adapt to the schedules of busy professionals. In this context, students will adapt the schedules and evaluation chronograms to their personal circumstances. In this way, the syllabus will be accompanied by multimedia tools to enrich students' learning.

A syllabus developed by a professional team specialized in DeFi, Wallets and Security with which you will achieve the most ambitious goals in the workplace"

Syllabus

The Postgraduate Certificate in Defi, Wallets and Security is an intensive program that performs an exhaustive analysis of digital wallets. In this sense, students will explore the fundamental pieces in the cryptographic world, deepening in its typology and correct operation. In addition, the syllabus will offer several case studies that will illustrate vulnerabilities. Thanks to this, students will overcome potential security challenges in their digital assets.

Through 150 hours of training, students will gain a solid foundation of knowledge in the landscape of cryptocurrencies and Blockchain technology. They will also address hacking or back-end loss scenarios to learn valuable lessons. Students will also develop strategies to mitigate threats and achieve greater password security.

It should be noted that this syllabus is designed to make students stand out in the digital market. In this way, the syllabus urges students to innovate by creating creative strategies. This way, professionals will make the most of the business opportunities in the world of cryptocurrencies.

On the other hand, TECH manages efficiency and excellence in the best way, so this program offers the most complete and top level educational update, positioning its students with the best academic standards at the end of the program. The students will only need an electronic device with Internet coverage and will easily access the virtual platform from the comfort of the place where they are.

This Postgraduate Certificate is developed over 6 week and is divided into 1 module:

Module 1	DeFi, Wallets and Security

Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in DeFi, Wallets and Security completely 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. DeFi, *Wallets* and Security

1.1. Multi-signature wallets: Strengthening security
- 1.1.1. Functioning of multi-signature wallets
- 1.1.2. Implementation of multi-signature wallets in transactions
- 1.1.3. Examples of cases in which multi-signature wallets have prevented fraud and losses

1.2. Wallet management in mobile devices
- 1.2.1. Mobile wallets
- 1.2.2. Wallet applications on iOS and Android devices
- 1.2.3. Security and best practices in the use of mobile wallets

1.3. Configuration and secure use of digital wallets
- 1.3.1. Creating a wallet
- 1.3.2. Private key management
- 1.3.3. Performing secure transactions

1.4. Cryptocurrencies and wallets
- 1.4.1. Storage of Bitcoin and other popular cryptocurrencies
- 1.4.2. Compatibility of wallets with different tokens
- 1.4.3. Multifunctional versus coin-specific wallets

1.5. Security measures for digital wallets
- 1.5.1. Two-factor authentication (2FA)
- 1.5.2. Secure passwords and password management practices
- 1.5.3. Suspicious activity monitoring and alerts

1.6. Hacking and loss of funds case studies
- 1.6.1. Examples of famous hacks
- 1.6.2. Common causes of loss of funds
- 1.6.3. Lessons learned from past incidents

1.7. Backup and recovery of funds
- 1.7.1. Importance of backups
- 1.7.2. Lost wallet recovery procedures
- 1.7.3. Strategies to prevent unrecoverable loss

1.8. Online vs. Offline wallets
- 1.8.1. Advantages and disadvantages of each type
- 1.8.2. Use of wallets in different contexts
- 1.8.3. Risk mitigation strategies

1.9. Public and private keys in digital wallets
- 1.9.1. Operation of cryptographic keys
- 1.9.2. Importance of keeping private keys secure
- 1.9.3. Signing transactions with keys

1.10. Advanced security strategies
- 1.10.1. Cold storage and hardware wallets
- 1.10.2. Segregated Witness (SegWit) and its impact on security
- 1.10.3. Smart contracts and security in cryptocurrency wallets

Stand out in a sector with great projection and is part of the financial change from efficiency and excellence"

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.a

"

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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%

30%

15%

4%

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.

Our Students' Profiles

The Postgraduate Certificate is aimed at university graduates, postgraduates and degree holders who have previously completed any of the qualifications in the field of Computer Science, Economics, Finance, Technology, Innovation or Research in Blockchain.

This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.

Professionals who, being university graduates in any area, have two years of work experience in the field of entrepreneurship and project development, can also take the Postgraduate Certificate.

"
Looking to strengthen your security?
Get it through the multi-signature wallets
that this training will provide you"

Average Age

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

Years of Experience

5 years **18%**

10 to 15 years **15%**

More than 15 years **37%**

5-10 years **30%**

Training

Science Economics **42%**

Computer Science **29%**

Finance **16%**

Other **13%**

Academic Profile

Industry **33%**

Services **20%**

Entrepreneurs **37%**

Other **10%**
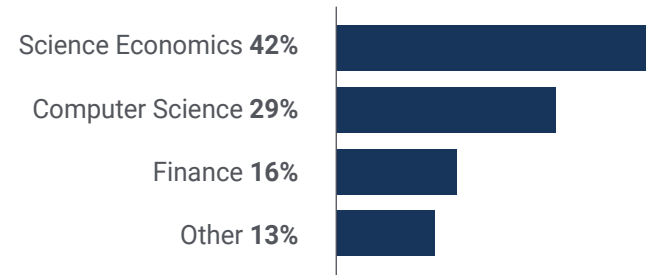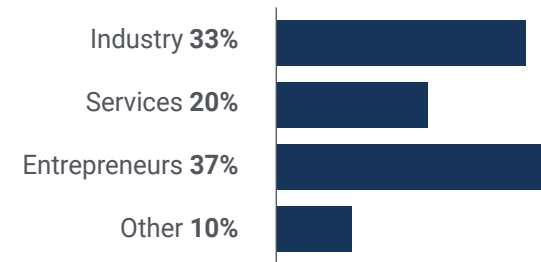
Geographical Distribution

U.S.A. **24%**

Spain **38%**

Mexico **21%**

Colombia **17%**
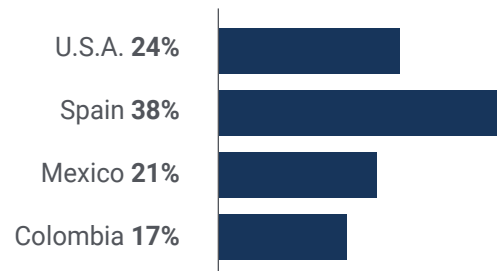
Sara Torres Gil

Economist and Innovation expert

"I am grateful for the quality of the educational program and the dedication of the professors who made this program possible. Their knowledge and guidance were fundamental in my learning process. I feel prepared to overcome any challenge at DeFi!"

Course Management

In its philosophy of offering educational excellence, TECH has assembled a faculty of great renown. These experts in DeFi, Wallets and Security have an extensive professional background, which has allowed them to deepen their skills and abilities to be at the forefront of a highly competitive field. In this way, students will be prepared for the challenges imposed by the area of finance in the workplace.

"

If you want to succeed, do it with the best and acquire the necessary competencies to excel in the DeFi, Wallets and Security sector"

Management

Mr. Hernández Blanco, Miguel

- CEO at Traders Business School
- *Financial Trader*
- COO *Trading Mentor*
- Postgraduate Diploma in Business Strategies, New Project Development and Financial Management
- Official Master's Degree in Finance and Banking from Pablo de Olavide University
- Official Master's Degree in *Blockchain* and *Fintech* by the European Institute of Business School
- Graduate in Economics from the University of Seville

Professors

Ms. Fernández Olmedo, María Isabel

- Specialist in Economic History and the Financial Sector
- Professor of Economic History and its Impact on Markets
- Official Master's Degree in Teaching MAES by the University of Nebrija
- Graduate in History from the Pablo de Olavide Universit

Impact on Your Career

This program in DeFi, Wallets and Security applied to DeFi aims to generate a considerable impact on the students' professional career. In this way, the teaching staff that is part of the training has developed a syllabus where the quality of the contents and the acquisition of new skills is a priority. Students will therefore be up to date with all the advances that have taken place in this subject, which is evolving by leaps and bounds. Furthermore, the revolutionary teaching methodology integrated by TECH in its qualifications will allow students to achieve their professional goals in an optimal way.

Public and private keys in digital wallets is one of the skills that you will undoubtedly master at the end of this Postgraduate Certificate"

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

TECH's Postgraduate Certificate in DeFi, Wallets and Security is an intensive program that prepares you to face challenges and business decisions in the Decentralized Finance sector. Its main objective is to boost your personal and professional growth. Helping you achieve success.

If you want to improve yourself, make a positive change at a professional level, and network with the best, then this is the place for you.

Keep up to date with the latest trends in monitoring and suspicious activity alerts thanks to this program.

Do you want to excel in backing up and recovering funds? Achieve it with TECH in just 6 weeks.

When the change occurs

During the program	During the first year	After 2 years
11%	**63%**	**26%**

Type of change

Internal Promotion **30%**

Change of Company **20%**

Entrepreneurship **50%**
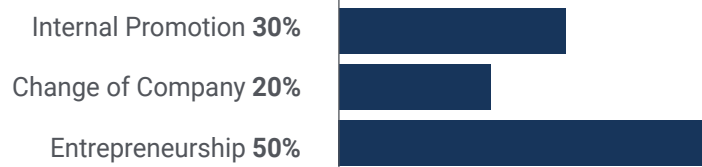
Salary increase

This program represents a salary increase of more than **26.24%** for our students

Salary before	A salary increase of	Salary after
€52,000	**26.24%**	**€65,644**

10

Benefits for Your Company

This program contributes to elevating the organization's talent to its maximum potential through the instruction of high-level leaders.

In addition, participating in this university option is a unique opportunity to access a powerful network of contacts in which to find future professional partners, customers or suppliers.

In the digital era, managers must integrate new processes and strategies that bring about significant changes and organizational development. This is only possible through university training and updating"

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 Certificate in DeFi, Wallets and Security guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

" *Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"*
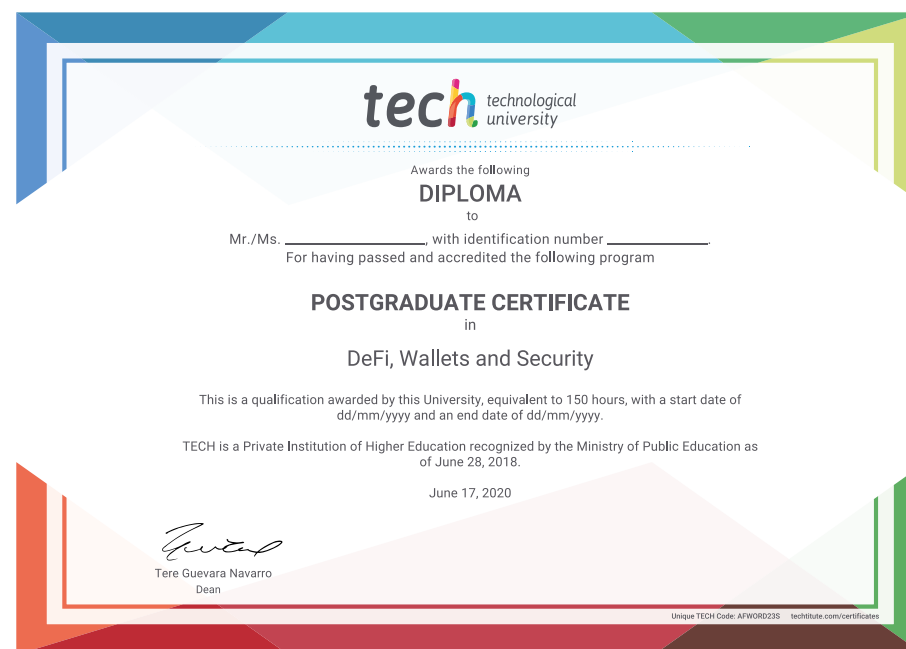
This **Postgraduate Certificate in DeFi, Wallets and Security** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in DeFi, Wallets and Security**

Official Nº of Hours: **150 h.**

tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

DeFi, Wallets and Security

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

Unique TECH Code: AFWORD23S   techtitute.com/certificates

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

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