

# Postgraduate Certificate Decentralized Finance



## Postgraduate Certificate Decentralized Finance

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Credits: 12 ECTS
- » Schedule: at your own pace
- » Exams: online
- » Target Group: Target Group: University graduates who have previously completed any of the degrees in the field of Social and Legal Sciences, Administrative and Business Administration In addition, to managers interested in the area of market analytics and digital economic consulting

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/decentralized-finance](http://www.techtute.com/us/school-of-business/postgraduate-certificate/decentralized-finance)

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# 01 Welcome

If you are looking for an opportunity to get qualified in decentralized finance, TECH brings you a disruptive and high-level university program. This educational journey covers everything from fundamental concepts to the most complex topics, including blockchain, cryptocurrencies, smart contracts and DeFi. Students will have the opportunity to interact with and learn from the experience of specialists in the field, as well as apply their knowledge in real-world situations. For all these reasons, this program is positioned as a valuable tool to qualify you in one of the most important emerging financial technologies.



Postgraduate Certificate in Decentralized Finance  
TECH Global University



“

*This new method for financial transactions based on blockchain technology is revolutionizing the economic world. Don't get left behind and learn the ins and outs of this technology, only with TECH”*

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:



### 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.



### 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"*

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

The main objective of this Postgraduate Certificate is to provide students with an in-depth understanding of decentralized finance and the blockchain technologies that support it. Through the exploration of different applications of blockchain, such as cryptocurrencies and smart contracts, students will understand how this technology can be used to create more accessible, secure and efficient financial systems. In addition, topics such as the regulation of decentralized finance and its impact on the global economy will be addressed.



“

*In just 12 weeks of intensive online education, you will master the basics of decentralized finance. Only with TECH"*

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

The Postgraduate Certificate in Decentralized Finance will enable students to:

01

Examine the potential uses of DeFi

02

Generate specialized knowledge on Loan Borrowing and Lending

03

Analyze Banking Services

04

Master decentralized Marketplaces

05

Develop the operation of DeFi smart contracts

06

Address the present and future challenges of Decentralized Finance





07

Establish the differences between DeFi and Open Banking

09

Establish DeFi architecture

10

Analyze financial, technical, operational and emerging risks

11

Analyze decision-making policies

08

Examine DeFi protocol characteristics

12

Master DeFi's legal regulations



05

# Structure and Content

The syllabus of this Postgraduate Certificate in Decentralized Finance is designed to provide students with an in-depth understanding of blockchain technologies and their impact on decentralized finance. Students will begin by learning the fundamental concepts of cryptography and blockchain technology, and then delve into specific applications, such as cryptocurrencies and smart contracts. Topics such as the regulation of decentralized finance, privacy and security in decentralized financial transactions, and their impact on the global economy will also be addressed.



“

*This program focuses on security as the basis for success, through the knowledge of the main protocols of the DeFi environment”*

## Syllabus

This 100% online Postgraduate Certificate in Decentralized Finance is a unique opportunity for those who wish to delve into the world of cryptocurrencies and their impact on the global economy.

In this program, students will have access to a wide variety of theoretical and practical content related to decentralized finance, including the study of the main cryptocurrencies and tokens, their operation and their application in real life.

Through a rigorous approach and interactive teaching methodology, students will be able to learn about the fundamentals of decentralized finance and how it is being used to create new business models and disrupt traditional financial systems. In addition, students will have the opportunity to interact with experts in the field of cryptocurrencies and discuss key topics in online discussion sessions.

In short, this Postgraduate Certificate offers a unique opportunity for those looking to expand their knowledge about decentralized finance and the world of cryptocurrencies in general.

This Postgraduate Certificate is developed over 12 weeks and is divided into 2 modules:

### Module 1

DeFi Ecosystem

### Module 2

DeFi Protocol Analysis



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

TECH offers you the opportunity to study this Postgraduate Certificate in Decentralized Finance completely online. During the 12 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow them 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 Ecosystem

### 1.1. Decentralized Finance or DeFi Concept

- 1.1.1. Financial Ecosystems
- 1.1.2. DeFi Solutions: Transparency and Open Source
- 1.1.3. Dapps and Peer to Peer Concept

### 1.2. Main DeFi Networks

- 1.2.1. DeFi Stack on Ethereum
- 1.2.2. Polkadot
- 1.2.3. Other DeFi Networks

### 1.3. Centralized and Decentralized Market Makers

- 1.3.1. Centralized vs. Decentralized
- 1.3.2. Maker Dao
- 1.3.3. Work Environments or Frameworks

### 1.4. Centralized vs. Decentralized Economy

- 1.4.1. Centralized Theories
- 1.4.2. Decentralized Theories
- 1.4.3. Case Studies and Scenarios

### 1.5. Yield Farming

- 1.5.1. Decentralized Profitability
- 1.5.2. Yield Farming Case Studies
- 1.5.3. Project Analysis

### 1.6. Liquidity Mining

- 1.6.1. Liquidity Mining Benefits
- 1.6.2. Yield Farming Differences
- 1.6.3. Project Analysis

### 1.7. Collateralization as a Guaranty Principle

- 1.7.1. Collateralization
- 1.7.2. Best Collateralization Projects
- 1.7.3. Guarantees as Assets to Be Made Profitable

### 1.8. Leverage

- 1.8.1. When to Use Leverage
- 1.8.2. Differences between Leverage and Collateralization
- 1.8.3. Leverage and Volatility

### 1.9. Current Financial System and CBDCs

- 1.9.1. Central Banks and Cryptos
- 1.9.2. State Cryptocurrencies or CBDCs
- 1.9.3. Future Scenario Theories

### 1.10. Asset Tokenization

- 1.10.1. Real Estate Assets
- 1.10.2. Works of Art
- 1.10.3. Creative Capacity as a Source of Wealth
- 1.10.4. Management of New Financial Instruments

## Module 2. DeFi Protocol Analysis

### 2.1. Stablecoins

- 2.1.1. Stablecoin Impact on the DeFi Ecosystem
- 2.1.2. Stablecoins PEGGED
- 2.1.3. Algorithmic Stablecoins
- 2.1.4. Terra's Failure

### 2.2. Decentralized Exchanges

- 2.2.1. DEX Principles
- 2.2.2. Uniswap
- 2.2.3. SushiSwap
- 2.2.4. Balancer

### 2.3. DeFi Interchain Applications

- 2.3.1. A Multichain Future
- 2.3.2. Layer 2
- 2.3.3. Layer 2 Limitations
- 2.3.4. CrossChain (Bridges)

### 2.4. ParaChain DeFi and Bridges Applications

- 2.4.1. Oracles
- 2.4.2. Cosmos and Polkadot (ICC)
- 2.4.3. Limitations of Creating Your Own Blockchain
- 2.4.4. Omnichain

### 2.5. Loans, Collateralization and Interest

- 2.5.1. Lending Crypto
- 2.5.2. Collateralization
- 2.5.3. Fixed Interest Rate

- 2.5.4. Aave and Compound
- 2.5.5. DeFi for Good

### 2.6. DeFi Insurance

- 2.6.1. How DeFi Insurance Works
- 2.6.2. Relevant DeFi Insurance Protocols
- 2.6.3. KYC Insurance

### 2.7. NFTs and DeFi

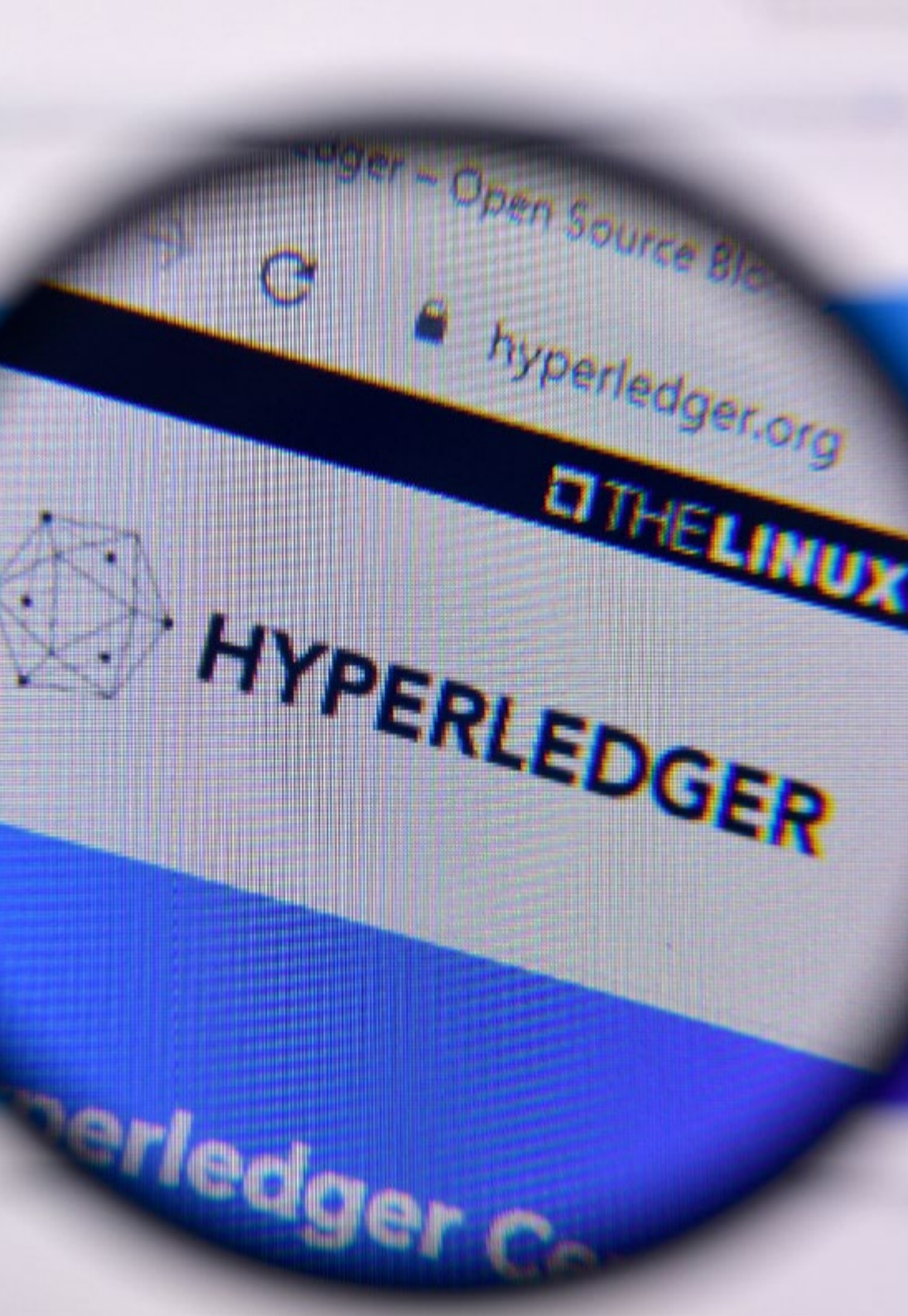
- 2.7.1. NFT Characteristics in DeFi
- 2.7.2. NFT Structure
- 2.7.3. Collateralization
- 2.7.4. Marketplaces

### 2.8. DeFi Analysis Tools

- 2.8.1. DeFi Protocol Analysis
- 2.8.2. Main DeFi Analysis Tools
- 2.8.3. Best Practices for Interpreting Information

### 2.9. Metaverse and Blockchain

- 2.9.1. The Ultimate DeFi Application
- 2.9.2. NFTs as Virtual Properties
- 2.9.3. Tokens as a Course Currency
- 2.9.4. Current Metaverses



“

*With this Postgraduate Certificate you will not only learn how decentralized finance works, but also the risks of this system. This way you will be able to anticipate any setback that may arise”*

# 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.*



*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.





### 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

The Postgraduate Certificate is aimed at University Graduates who have previously completed any of the following degrees in the field of Social and Legal Sciences, Administration and Economics.

The diversity of participants with different educational profiles and from multiple nationalities makes up the multidisciplinary approach of this program.

The Postgraduate Certificate can also be taken by professionals who, being university graduates in any area, have two years of work experience in the field of Blockchain and economic consulting.







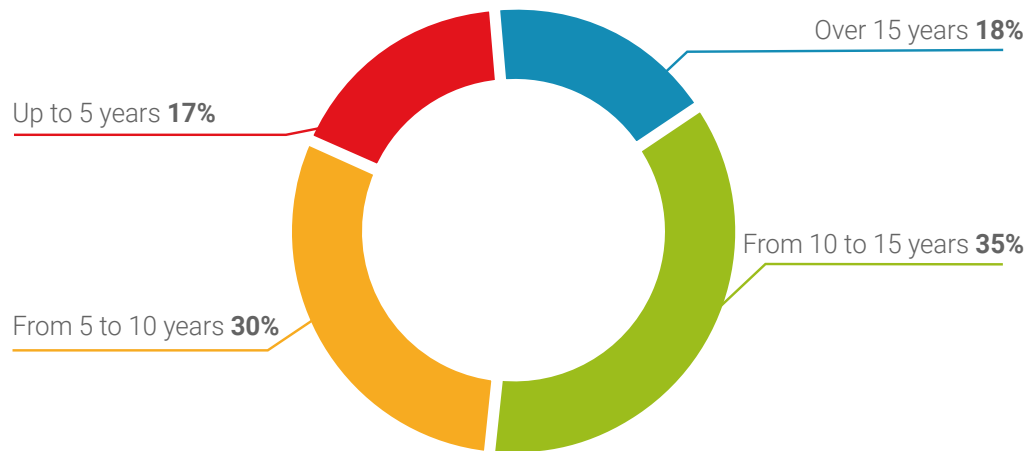
“

*The only requirement you must meet to get the most out of this Postgraduate Certificate is to want to master crypto investment models and succeed in the financial environment of digital assets”*

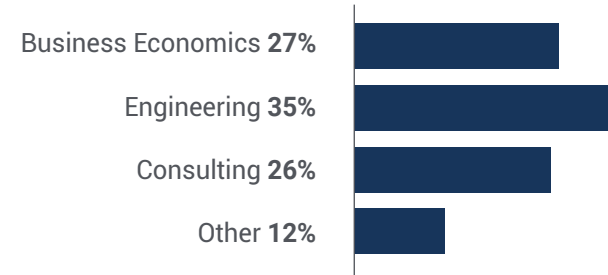
### Average Age

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

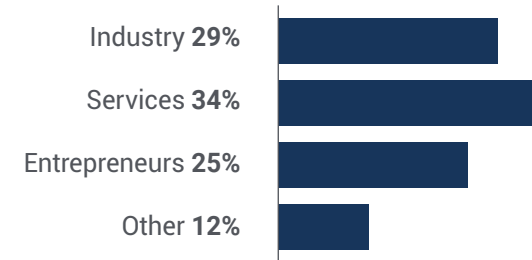
### Years of Experience



### Training

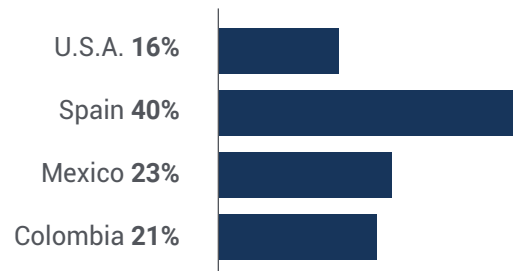


### Academic Profile



## Geographical Distribution

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## Andrés Daniel Pérez Marco

---

Trader

*"I was looking for a course that would update me on the blockchain structure and decentralized finance and I went for this one from TECH. I have absolutely no regrets in choosing it, as it not only gets a cutting edge syllabus, but also the teaching of a great faculty. 100% recommended"*

08

# Course Management

The professors of this Postgraduate Certificate in Decentralized Finance are experts in industry and academia with experience in blockchain technologies and decentralized finance. They have worked on innovative projects in finance and have published articles in high-impact academic journals. The teaching team is committed to providing students with practical and applied learning, with a focus on understanding fundamental concepts and the ability to apply them in real-world situations.



“

*TECH gives you the opportunity to learn from the experience of the best faculty. This ensures rigorous learning adapted to the needs of today's professional world"*

## Management



### **Dr. Gil de la Guardia, Alberto**

- ♦ Founding member of Le Crypto Club
- ♦ Co-director of several university programs related to Blockchain Technology and the Crypto world
- ♦ Doctorate in International Public Law at the Complutense University of Madrid.
- ♦ Master's Degree in Financial Studies from CEU San Pablo University.
- ♦ Master's Degree in Blockchain Technology and Bitcoin from the European University of Madrid
- ♦ Degree in Law from the University of Salamanca



No SIM   
**CRYPTOTRADER**  
Bitfinex BTC/USD

7600

7500



09

# Impact on Your Career

The cryptocurrency market is booming, so the demand for professionals who master this field has grown exponentially. For this reason, the graduate who accesses this Postgraduate Certificate will be guaranteed a successful working future within the decentralized digital finance. And the fact is that, to have in your resume with a distinctive as this program, endorsed by a great university of international prestige as TECH, will allow you to stand out, undoubtedly, in any job interview.





“

*A program that, thanks to its very high level, will mark a before and after in your professional career as an expert in decentralized finance”*

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

TECH's Postgraduate Certificate in Decentralized Finance is an intensive program that prepares you to face challenges and business decisions in the field of Economics and Blockchain. Its main objective is to promote your personal and professional growth. Helping you achieve success.

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

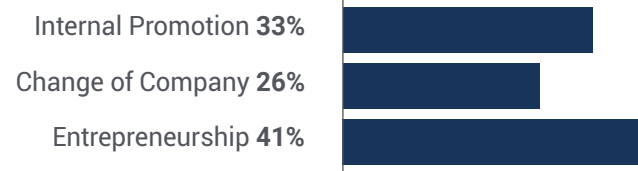
*The time is now. Take your career to the next level with this program in Decentralized Finance.*

*You will improve not only your salary expectations, but also your professional promotion thanks to the knowledge you will acquire with this course.*

### When the change occurs



### Type of change



### Salary increase

---

This program represents a salary increase of more than **27.42%** for our students.



10

# Benefits for Your Company

This Postgraduate Certificate has been designed so that professionals can develop the skills of a top-level expert in Decentralized Finance. Thanks to the course, graduates will acquire a unique set of skills that will enable them to act in a feasible, arduous and successful way in any type of situation, including the most complex ones. In addition, you will develop as a highly skilled manager capable of taking on any Blockchain, DeFi or token related project with confidence and leadership.



“

*You and your company will experience unprecedented growth after taking this university program”*

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 Decentralized Finance guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in Decentralized Finance** 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 Decentralized Finance**

Modality: **online**

Duration: **12 weeks**

Accreditation: **12 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.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present

online training

development languages

virtual classroom



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