



# Postgraduate Diploma Decentralized Finance

» Modality: online» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

» Target Group: University Graduates who have previously completed any of the degrees in the fields of Social and Legal Sciences, Administrative and Business Sciences. In addition, managers interested in the area of market analytics and digital economic consulting

Website: www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-decentralized-finance

## Index

02 Why Study at TECH? Why Our Program? Objectives Welcome p. 4 p. 6 p. 10 p. 14 06 Our Students' Profiles Methodology Structure and Content p. 20 p. 26 p. 34 80 Course Management Benefits for Your Company Impact on Your Career p. 38 p. 42 p. 46 Certificate

# 01 **Welcome**

There is no doubt that the world of DeFi is here to stay. The good health that IT protocols have shown so far in a declining market bodes well for the future of this field, which is closely related to the web3. More and more companies are joining the long list of entities that are deciding to focus part or all of their activity on investments in digital assets. That is why opting for an educational experience like the one TECH offers with this 100% online program is an opportunity that anyone interested in this sector cannot miss. And it is that in just 6 months of theoretical-practical qualification you will manage to master the ins and outs of Decentralized Finance through the knowledge of the most innovative and effective strategies and techniques in the current digital market.









### tech 08 | Why Study at TECH?

#### 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

+200

executives prepared each year

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"

#### Why Study at TECH? | 09 tech

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.





#### tech 12 | Why Our Program?

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



#### 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.



## 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.



#### 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.



#### 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.



#### 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.



#### 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.



#### 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.



#### 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.





### tech 16 | Objectives

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

The **Postgraduate Diploma in Decentralized Finance** will qualify student to:



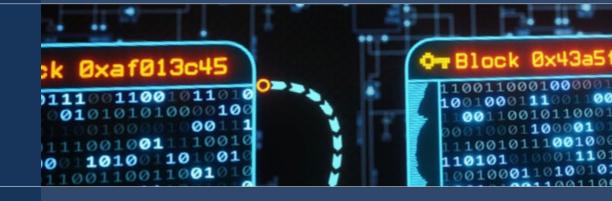
Examine the potential uses of DeFi



Mastering decentralized marketplaces



Generate specialized knowledge on Loan Borrowing and Lending





Analyze banking services



Developing the operation of DeFi smart contracts



Address the present and future challenges of decentralized finance



Establish DeFi architecture





Analyze financial, technical, operational and emerging risks



Examine DeFi protocol characteristics



Analyze decision-making policies



Analyze each potential investment candidate in a technical (graphs) and fundamental (projects) manner



Examine trading strategies based on market trends



Generate data reports of operations that with mathematical indicators allow entering and exiting at the right time







Support the strategies through analytical explanations



Establish trend movements that verify whether you are in a bull or bear market



Demonstrate, through resistances and supports, the trend lines of the markets





#### tech 22 | Structure and Content

#### **Syllabus**

The syllabus of this Postgraduate Diploma in Decentralized Finance has been proposed by TECH, but supervised and adapted by the teaching team to form an educational experience of the highest level according to the current situation of cryptoeconomics. Based on this, 450 hours of the best theoretical-practical and additional content have been designed, with which the graduate will acquire the most comprehensive and specialized possible knowledge.

This 100% online program delves into the DeFi ecosystems and their main networks, with special emphasis on the principle of collateralization as a guarantee and current financial systems. It then focuses its development on the analysis of the different protocols and applications of decentralized exchanges, highlighting the importance of NFTs in digital assets. Finally, it delves into the study of the main investment strategies in the current market, providing the keys to develop the configuration of a profitable and highly profitable investment portfolio.

Therefore, in just 6 months of training, the entrepreneur will have acquired the managerial and specialized skills to lead any type of project related to DeFi, as well as the mastery of the main tools for investing in digital assets in a safe and reliable way. It is, then, the leap your professional development needs to reach the highest level and succeed in a booming sector such as the cryptoeconomy.

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

Module 1 DeFi Ecosystem

Module 2 DeFi Protocol Analysis

Module 3 Investment Strategy Analysis



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

TECH offers the possibility of developing this Postgraduate Diploma in Decentralized Finance completely online. Throughout the 6 months of the educational program, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

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

### tech 24 | Structure and Content

Mod	<b>ule 1</b> . DeFi Ecosystem					
1.1. 1.1.1. 1.1.2.	Decentralized Finance or DeFi Concept Financial Ecosystems DeFi solutions: Transparency and Open Source DAPP and Peer to Peer Concept	<ul><li>1.2. Main DeFi Networks</li><li>1.2.1. DeFi Stack on Ethereum</li><li>1.2.2. Polkadot</li><li>1.2.3. Other DeFi Networks</li></ul>	1.3.1. 1.3.2.	Centralized and Decentralized Market Makers Centralized vs. Decentralized Maker Dao Work Environments or Frameworks	1.4.1. 1.4.2.	Centralized vs. Decentralized Economy Centralized Theories Decentralized Theories Case Studies and Scenarios
1.5.1. 1.5.2.	Yield Farming Decentralized Profitability Yield Farming Case Studies Project Analysis	<ul><li>1.6. Liquidity Mining</li><li>1.6.1. Liquidity Mining Benefits</li><li>1.6.2. Yield Farming Differences</li><li>1.6.3. Project Analysis</li></ul>	1.7.1. 1.7.2.	Collateralization as a Guaranty Principle Collateralization Best Collateralization Projects Guarantees as Assets to Be Made Profitable	1.8.1. 1.8.2.	Leverage When to perform Leverage? Differences between Leverage and Collateralization Leverage and Volatility
1.9.1. 1.9.2.	Current Financial System and CBDC  Central Banks and Cryptos State Cryptocurrencies or CBDCs 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				
<b>2.1.</b> 2.1.1. 2.1.2. 2.1.3.	Stablecoins PEGGED	<ul><li>2.2. Decentralized Exchanges</li><li>2.2.1. DEX Principles</li><li>2.2.2. Uniswap</li><li>2.2.3. SushiSwap</li><li>2.2.4. Balancer</li></ul>	2.3.1. 2.3.2. 2.3.3.	DeFi Interchain Applications  AMultichainFuture Layer 2 Layer 2 Limitations CrossChain (Bridges)	2.4.1. 2.4.2.	ParaChain DeFi and Bridges Applications Oracles Cosmos and Polkadot (ICC) Limitations of Creating Your Own Blockchain
2.5.1. 2.5.2. 2.5.3. 2.5.4.	Loans, Collateralization and Interest Lending Crypto Collateralization Fixed Interest Rate Aave and Compound 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	2.7.1. 2.7.2. 2.7.3.	NFT and DeFi NFT Characteristics in DeFi NFT Structure Collateralization Marketplaces	2.4.4. 2.8. 2.8.1. 2.8.2.	Omnichain  DeFi Analysis Tools  DeFi Protocol Analysis  Main DeFi Analysis Tools  Best Practices for Interpreting Information
2.9.1. 2.9.2. 2.9.3.	Metaverse and Blockchain The Ultimate DeFi Application NFT as Virtual Properties Tokens as a Course Currency Current Metaverses	2.10. Decentralized Finance Risks 2.10.1. DeFi 2.0 and the Ponzi Scheme 2.10.2. Hacking smart contracts 2.10.3. Rug Pulls 2.10.4. Impermanent Loss				

Module 3. Investment Strategy Analysis			
<ul><li>3.1. Exchange Analysis</li><li>3.1.1. Main Competitors</li><li>3.1.2. Identification Procedures</li><li>3.1.3. Order Types</li></ul>	<ul> <li>3.2. DeFi Alternative Markets (Pancake Swap)</li> <li>3.2.1. Market Players</li> <li>3.2.2. DeFi Typology</li> <li>3.2.3. Cash Flow Pools</li> </ul>	<ul><li>3.3. Crypto Investment Models</li><li>3.3.1. Yield Farming</li><li>3.3.2. Flash Loans</li><li>3.3.3. CFD Trading</li></ul>	<ul><li>3.4. Coin Stacking</li><li>3.4.1. The Right Choice</li><li>3.4.2. Temporariness</li><li>3.4.3. Masternodes</li></ul>
<ul><li>3.5. Farming</li><li>3.5.1. New Economy Model</li><li>3.5.2. Time as a Partner</li><li>3.5.3. Advanced Farming Platform Analysis</li></ul>	<ul> <li>3.6. Investment Portfolio Configuration</li> <li>3.6.1. Market Efficiency</li> <li>3.6.2. Volatility Frontier Portfolio</li> <li>3.6.3. Volatility Positioning</li> </ul>	<ul><li>3.7. Crypto Arbitration</li><li>3.7.1. Technology and its "Slots"</li><li>3.7.2. Market Disagreements</li><li>3.7.3. Risk Limitation Techniques</li></ul>	<ul><li>3.8. NFT architecture</li><li>3.8.1. Fungible vs. Non-Fungible</li><li>3.8.2. NFT on the web3</li><li>3.8.3. Architecture of a NFT System</li></ul>
<ul><li>3.9. Operations with NFT</li><li>3.9.1. Create, Buy and Sell NFT</li><li>3.9.2. NFT and Sport</li><li>3.9.3. NFT and the Immediate Future</li></ul>	<ul><li>3.10. Decision-Making and Risk Management</li><li>3.10.1. On-Chain Metrics</li><li>3.10.2. Project Metrics</li><li>3.10.3. Financial Metrics</li></ul>		



You will have all the material you need to delve into asset tokenization and the management of new financial instruments for their mastery"



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.



#### tech 28 | Methodology

## 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.





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.

#### tech 30 | Methodology

#### 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.



#### Methodology | 31 tech

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.





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**

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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.

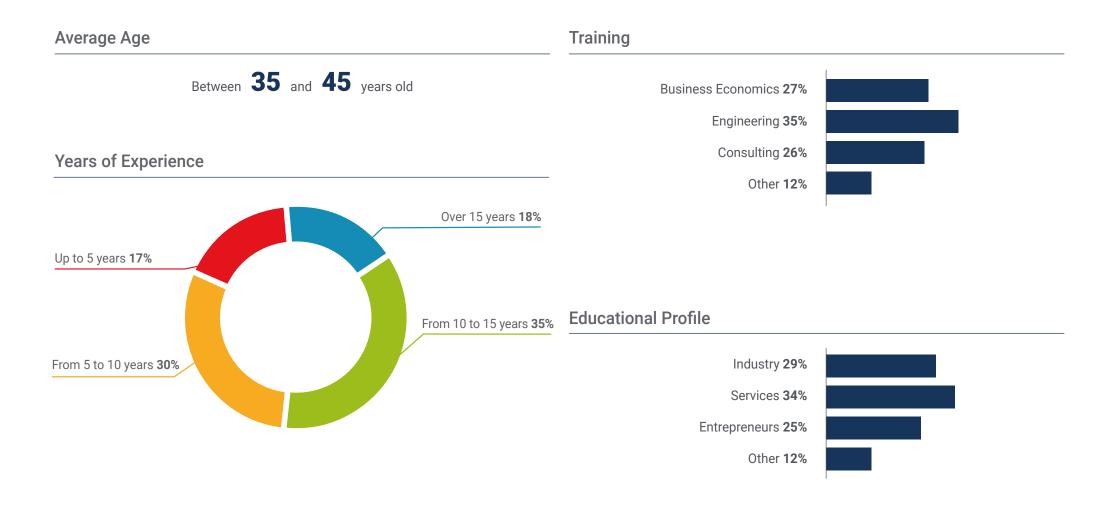


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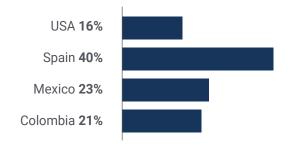




#### tech 36 | Our Students' Profiles



#### **Geographical Distribution**





# Raúl Giménez

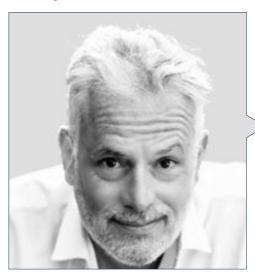
Consultant and Managing Partner at a major digital asset firm

"This Postgraduate Diploma was the push that my career needed to progress in the field of decentralized finance. And thanks to the dynamism and quality of its content, both theoretical and additional, I was able to immerse myself in DeFi protocols and strategies that I could then apply in my work environment. As a result, in just a few months we saw our income increase considerably, which helped me to achieve the promotion I had been looking for for years"





#### Management



## Mr. 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







# tech 44 | Impact on Your Career

A program that will serve as a key asset to achieve the salary increase that you have been longing for, thanks to the improvement of your professional potential and quality.

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

TECH's Postgraduate Diploma in Decentralized Finance is an intensive program that prepares the professional to face challenges and business decisions in the field of cryptoeconomics and digital assets. The main objective is to promote personal and professional growth. Helping students achieve success.

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

You will be able to establish market trends through the analysis of the main investment strategies in DeFi.

#### **Time of Change**

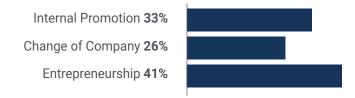
During the program

57%

After 2 years

28%

#### Type of Change



# Salary increase

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

\$58,300

A salary increase of

27.42%

\$74,200





# tech 48 | Benefits for Your Company

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



#### 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.



# 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.



### **Building agents of change**

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



#### Increased international expansion possibilities

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





# **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.



#### Increased competitiveness

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





# tech 52 | Certificate

This program will allow you to obtain your **Postgraduate Diploma 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 Diploma in Decentralized Finance

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



#### Postgraduate Diploma in Decentralized Finance

This is a program of 450 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



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



# Postgraduate Diploma Decentralized Finance

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» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

