

# Postgraduate Certificate DeFi & NFT Applications on Blockchain





## Postgraduate Certificate DeFi & NFT Applications on Blockchain

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online
- » Target Group: computer engineers, programmers, cryptocurrency and NFT managers and other digital-related professionals. As well as managers interested in implementing Blockchain technology in their companies and people interested in Blockchain technology

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/defi-nft-applications-blockchain](http://www.techtute.com/us/school-of-business/postgraduate-certificate/defi-nft-applications-blockchain)

# Index

01

Welcome

---

*p. 4*

02

Why Study at TECH?

---

*p. 6*

03

Why Our Program?

---

*p. 10*

04

Objectives

---

*p. 14*

05

Structure and Content

---

*p. 18*

06

Methodology

---

*p. 24*

07

Our Students' Profiles

---

*p. 32*

08

Course Management

---

*p. 36*

09

Impact on Your Career

---

*p. 42*

10

Benefits for Your Company

---

*p. 46*

11

Certificate

---

*p. 50*

# 01 Welcome

NFTs have burst onto the scene with great force in certain business sectors. Completely changing the conception of them. For example, in the world of video games, trading with non-fungible tokens is reaching unsuspected levels. Even NFT of characters for games that have not even been released have been bought and resold. Simply because of the speculation that has been generated. This boom is due to certain circumstances that will be explained throughout the program prepared by TECH. Defining its characteristics, market functioning and creation methods. At the same time, decentralized finance (DeFi) will be analyzed, as well as its tools and platforms. All this, through an online mode and without schedules that allows students to organize themselves according to their needs and circumstances.



Postgraduate Certificate in Defi & NFT Applications in Blockchain.  
TECH Technological University



“

*Enroll and familiarize yourself with the typology and characteristics of NFTs so that you can join a trend that continues to grow”*

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 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.





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



### Learn with the best

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

Teachers representing 20 different nationalities.



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



### Analysis

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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 groundbreaking 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.*

# 04 Objectives

Graduates of this Postgraduate Certificate will be up-to-date with the latest developments in Blockchain technology. First, by learning about the challenges of DeFi, its main information tools and decentralized platforms. And second, delve into the characteristics of an NFT, how it works, the processes involved in its creation and the main markets.



“

*The program will allow you to see how government-backed money and decentralized finance relate to each other. So you can work with the one that best suits your business"*

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

The Postgraduate Certificate in Defi & NFT Applications in Blockchain will enable the student to:

01

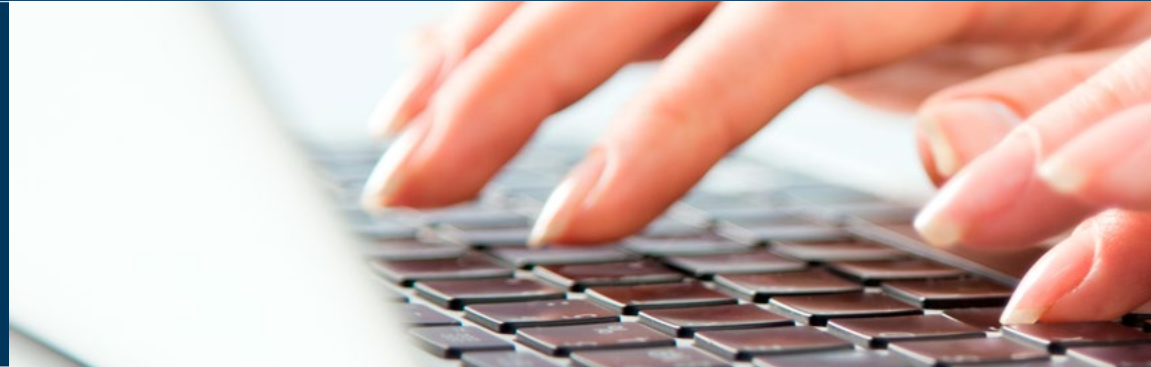
Analyze the different itools

04

Examine the characteristics of NFTs and their markets

02

Assess new forms of passive income



03

Determine what Open Finance is

05

Evaluate the importance of Stable Coins



06

Examine Maker, Augur and Gnosis protocol

08

Identify the importance of Uniswap



07

Determine the AAVE protocol

09

Study the Sushiswap philosophy in depth

10

Analyze dY/dX and Synthetix

05

# Structure and Content

The Postgraduate Certificate in Defi & NFT Applications in Blockchain is taught in a fully online mode and without timetables. So, students can choose the time and place that best suits their availability and interests. A program that takes place over 6 weeks and a 24 hour a day available syllabus that aims to be a unique and stimulating experience to sow the foundations for professional success.



“

*Learn from our educators the technology behind Ethereum and how it allows the creation of stable coins"*

## Syllabus

The Postgraduate Certificate in Defi & NFT Applications in Blockchain of TECH Technological University is an intensive program that instructs its students in the most useful and novel applications of Blockchain.

The content of this Postgraduate Certificate is designed to promote the development of managerial skills, aimed at making decisions with rigor in a rapidly advancing technological ecosystem.

Over 150 hours in length, students will analyze a multitude of practical cases through individual and teamwork. It is therefore a real immersion in the benefits that DeFi and NFT can bring to the company.

Different concepts related to DeFi will be developed, providing a general framework to understand them and delving into certain tools and platforms. On the other hand, the NFT ecosystem will be studied and the necessary knowledge to generate and trade them will be provided. Including in both parts the study of real cases that facilitate the assimilation of learning.

The plan focuses on professional improvement to achieve excellence in personal and business management. Understanding the current company needs and, consequently, proposing innovative content. Moreover, the program is supported by an exceptional educational methodology and teaching staff that generate creative and efficient skills.

This Postgraduate Certificate takes place over six week and consists of one module:

### Module 1

Blockchain and its New Applications: DeFi and NFT



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

TECH offers the possibility of developing this Postgraduate Certificate in Defi & NFT Applications in Blockchain completely online. Throughout the 6 weeks of the program, you will be able to access all the program contents at any time, allowing you to self-manage your study time.

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

**Module 1. Blockchain and its New Applications: DeFi and NFT**

**1.1. Financial Culture**

- 1.1.1. Evolution of Money
- 1.1.2. Fiat money vs. Decentralized Money
- 1.1.3. Digital Bank vs. Open Finance

**1.2. Ethereum**

- 1.2.1. Technology
- 1.2.2. Decentralized Money
- 1.2.3. Stable Coins

**1.3. Other Technology**

- 1.3.1. Binance Smart Chain
- 1.3.2. Polygon
- 1.3.3. Solana

**1.4. DeFi (Decentralized Finance)**

- 1.4.1. DeFi
- 1.4.2. Challenges
- 1.4.3. Open Finance vs. DeFi

**1.5. Information Tools**

- 1.5.1. Metamask and Decentralized Wallets
- 1.5.2. CoinMarketCap
- 1.5.3. DefiPulse

**1.6. Stable Coins**

- 1.6.1. Protocol Maker
- 1.6.2. USDC, USDT, BUSD
- 1.6.3. Forms of Collateralization and Risks

**1.7. Exchanges and Decentralized Exchanges and Platforms (DEX)**

- 1.7.1. Uniswap
- 1.7.2. SushiSwap
- 1.7.3. AAVE
- 1.7.4. dYdX / Synthetix

**1.8. NFT Ecosystem (Non-Fungible Tokens)**

- 1.8.1. NFTs
- 1.8.2. Typology
- 1.8.3. Features

**1.9. Capitulation of Industries**

- 1.9.1. Design Industry
- 1.9.2. Fan Token Industry
- 1.9.3. Project Financing

**1.10. NFT Markets**

- 1.10.1. Opensea
- 1.10.2. Rarible
- 1.10.3. Customized Platforms



*Enroll and start using Solana, a working environment oriented to the development of low-cost DeFi applications"*



# 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

This Postgraduate Certificate is intended for computer engineers, programmers, cryptocurrency managers and others in the digital field. As well as managers interested in implementing Blockchain technology at their companies and people interested in Blockchain technology.







“

*Get ahead of the market needs and discover the challenges faced by DeFi through the specific topic dedicated to them in this program”*

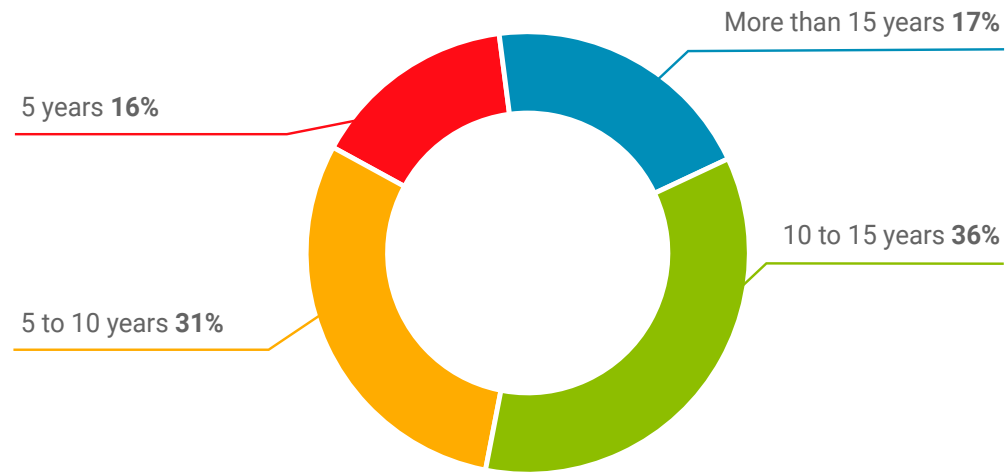
### Average Age

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

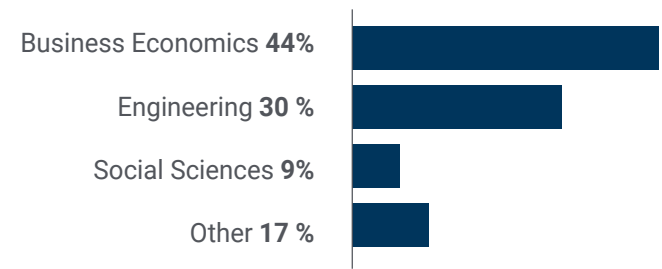
### Years of Experience

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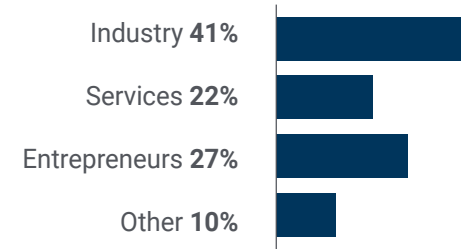
### Training

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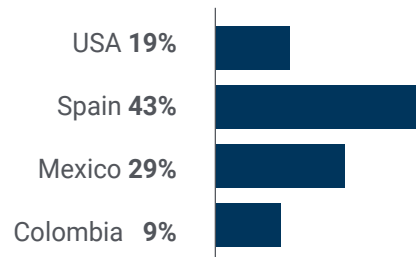
### Educational Profile

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## Geographical Distribution

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## Martín Rodríguez Alarcón

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Chief Financial Officer

*"The implementation of decentralized finance in our company has been a revolution. Suddenly, processes in almost all areas have been accelerated. Within a year, we have managed to increase profits. And even the employees have noticed how workloads have eased. I am really grateful for the advice I received from my teachers."*

08

# Course Management

The teaching team of this program is composed of experts in Defi & NFT Applications in Blockchain in active and will share with their students all the keys in this field, so that they can later apply them in their own companies. In this way, it is guaranteed that everything they learn in this program has a practical application that will substantially improve the future prospects of their companies.



“

*The leading experts in Defi & NFT Applications in Blockchain have come together to offer you a high level program, which will be fundamental to your professional development in this field"*

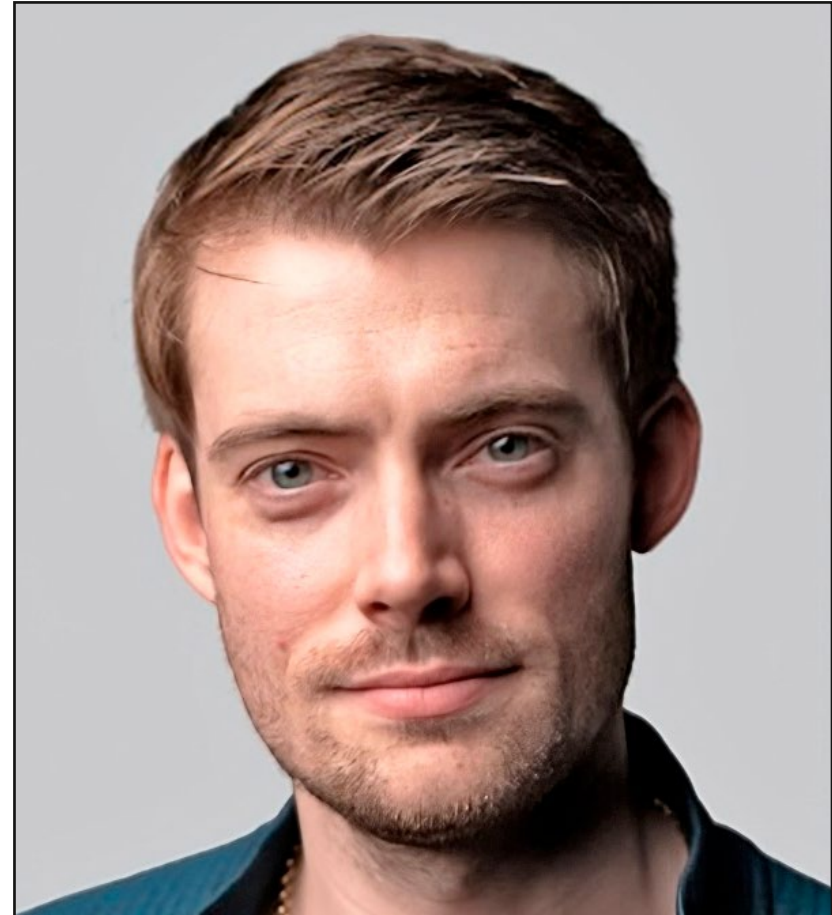
## International Guest Director

Chris Sutton is a leading professional with extensive experience in the field of technology and finance, specializing in the Blockchain area. In fact, he has held the senior position of Director of the Blockchain and Digital Assets Department at Mastercard. In addition, he has been the Founder of the consulting firm N17 Capital, in which he offers advice to companies in the field of Blockchain and digital assets. So, one of his functions has been to identify the components that make up these new tools, analyze them and create working strategies.

His professional experience has included high-level roles in leading companies in the sector, such as Oasis Pro Market, where he has performed duties as Director of Blockchain Services. In addition, he has worked as Mergers and Acquisitions Product Manager at Cisco, and as Product Manager at IBM. These positions have allowed him to stand out internationally for his ability to lead teams, develop innovative strategies and manage large-scale projects.

Throughout his career, he has participated in important technological and financial events. In this sense, Chris Sutton has given presentations and has been part of international panels, along with other leading experts in this sector. In this way, on the occasion of the 15th anniversary of the white paper on Bitcoin, he participated in the events of the FinTech week in Hong Kong. He also presented his expertise at a conference organized by Mastercard in Dubai on banking in the digital age and the impact of digital assets. Likewise, his analyses have focused on delving into the history, principles and future of the Blockchain.

In short, his strategic vision and outstanding skills in programming and algorithms have been key to his success in the international market, consolidating him as a leader in his field.



## Mr. Sutton, Chris

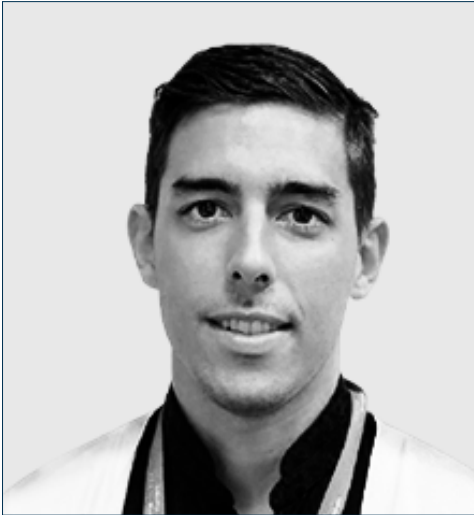
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- ♦ Director of Blockchain and Digital Assets at Mastercard, Miami, U.S.A.
- ♦ Founder of N17 Capital
- ♦ Director of Blockchain Services at Oasis Pro Market
- ♦ Mergers and Acquisitions Product Manager at Cisco
- ♦ Product Manager at IBM
- ♦ Contributor at Cointelegraph
- ♦ Master's degree in Financial Systems Engineering from University College London
- ♦ Bachelor's Degree in Computer Science from Florida International University

“

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

## Management



### Mr. Torres Palomino, Sergio

- ♦ IT Engineer with expertise in Blockchain
- ♦ Blockchain Lead at Telefónica
- ♦ Blockchain Architect at Signeblock
- ♦ Blockchain Developer at Blocknitive
- ♦ Writer and Publisher at Media Books
- ♦ Lecturer in graduate studies and Blockchain related courses
- ♦ Degree in Biotechnology from CEU San Pablo University
- ♦ Master's Degree in Big Data Architecture
- ♦ Master's Degree in Big Data and Business Analytics

## Professors

### Mr. Callejo González, Carlos

- ♦ CEO and Founder of Block Impulse
- ♦ Chief Technology Officer at Stoken Capital
- ♦ Advisor at Club Crypto Actual
- ♦ Advisor in Cryptocurrencies for All Plus
- ♦ Master in Applied Blockchain
- ♦ Superior Degree in Information Systems and Telecommunications

### Mr. Triguero Tirado, Enrique

- ♦ Blockchain Infrastructure Technical Manager at UPC-Threepoints
- ♦ Chief Technical Officer at Illusiak
- ♦ Project Management Officer at Illusiak and Deloitte
- ♦ ELK Engineer at Everis
- ♦ Systems Architect at Everis
- ♦ Degree in Technical Engineering in Computer Systems at the Polytechnic University of Valencia
- ♦ Master's Degree in Blockchain and its Business Applications from ThreePoints and the Polytechnic University of Valencia





09

# Impact on Your Career

TECH's proposed program delves into the most profitable applications of Blockchain technology. The possibilities of DeFi and NFTs are endless. Discovering how to implement them correctly in business can generate significant benefits.



“

*Discover the best way to introduce the Uniswap and Sushiswap platforms in your business through this program"*

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

The Postgraduate Certificate in DeFi & NFT Applications on Blockchain and Business from TECH is an intensive program that prepares its graduates to face challenges and business decisions in the field of Blockchain technology. Its primary objective is to promote personal and business growth by helping you achieve success.

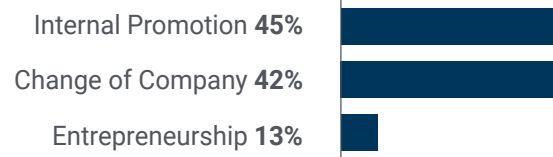
*TECH teachers will teach you the fastest and most efficient methods to finance your company's Blockchain projects.*

*Creating customized NFT sales platforms can be a good way to introduce this technology in your company. In TECH we tell you how to do it.*

#### Time of Change



#### Type of Change



## Salary increase

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The completion of this program represents a salary increase of more than **27.35%** for our students.



10

# Benefits for Your Company

The Postgraduate Certificate in Defi & NFT Applications in Blockchain contributes to elevate the organization's talent to its full potential through learning oriented to high-level leaders.

Apply knowledge of *Blockchain* and utilities will help boost business capabilities. And, therefore, it will allow students to face the needs of a changing market.



“

*Motivate your team by proposing current and innovative objectives through the DeFi and NFT training provided by this Postgraduate Certificate”.*

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.

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**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.

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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 & NFT Applications on Blockchain guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in DeFi & NFT Applications on Blockchain** 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 the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Defi & NFT Applications in Blockchain**

Official N° of Hours: **150 h.**



\*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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