

# Postgraduate Certificate

## Liquidity and Decentralized Markets (DEX)



## Postgraduate Certificate Liquidity and Decentralized Markets (DEX)

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

Website: [www.techtute.com/in/school-of-business/postgraduate-certificate/liquidity-decentralized-markets-dex](http://www.techtute.com/in/school-of-business/postgraduate-certificate/liquidity-decentralized-markets-dex)

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# 01 Welcome

Decentralized markets (DEX) have completely revolutionized the way users buy and sell digital assets. This is due to advantages such as greater autonomy by not relying on intermediaries. Also, these systems reduce the risk of cyber-attacks that often affect centralized exchanges. However, experts must acquire a deep understanding of the technological advances that have occurred in recent decades in this area. In response to this need, TECH presents a comprehensive program that will prepare managers to innovate in global financial systems. In addition, the academic itinerary is taught 100% online for greater convenience and flexibility on the part of students.



Postgraduate Certificate in Liquidity and Decentralized Markets (DEX)  
TECH Technological University



“

*Become a true financial leader through  
TECH, the best digital university  
in the world according to Forbes"*

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

---

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

---

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

The central premise of this program is to offer its students the most in-depth and up-to-date knowledge in relation to the evolution of DEX and its liquidity. In this way, the graduates of this university program develop leadership abilities and skills to promote successful projects in this business field. In short, this academic itinerary constitutes a unique and exclusive opportunity to reach executive positions through the most innovative contents and the seal of excellence of TECH Business School.



“

*You will achieve all your objectives in a fast, flexible and practical way thanks to the disruptive Case Study Method implemented in this program”*

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

The Postgraduate Certificate in Liquidity and Decentralized Markets (DEX) will enable the students to:

01

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

04

Applying the latest trends in yield farming and participation in DAOs

02

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

03

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

05

Proficiency in a variety of digital wallets, executing rigorous security practices





06

Ability to research case studies of hacks and losses of funds related to digital wallets to learn from common mistakes

08

Master the most popular lending and staking platforms, using them efficiently

09

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

07

Understanding the fundamental concepts of cryptocurrency lending, including the process, types of loans, and interest rates

10

Application of the most commonly used DEX protocols such as Uniswap, SushiSwap and PancakeSwap



11

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

12

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





13

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

14

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

05

# Structure and Content

TECH's program in Liquidity and Decentralized Markets (DEX) has a 100% online study format to adapt to the needs of all its students. Each graduate can adjust the time they dedicate to the contents according to their personal or work obligations. On the other hand, the syllabus of this program includes innovative and competitive edges of the *Blockchain* world and its economic applications.



“

*Do not miss this opportunity to expand your business skills with this university program in 100% online mode”*

## Syllabus

This Postgraduate Certificate is a complete program based on Blockchain technology. Through its syllabus, students delve into the functioning of decentralized markets, emphasizing advantages such as dispensing with classic intermediaries (such as financial institutions). Likewise, the academic itinerary covers both the opportunities and challenges faced by DEXs.

In just under 6 weeks, graduates of this program acquire new skills to excel in the crypto sector. Also, under the support of the best faculty, students analyze the legal considerations for operators at an international level. In this sense, the contents define the main regulatory challenges in global markets.

It should be noted that the academic itinerary is designed for graduates to master technologies underlying DEX, among which *Ethereum* stands out. These experts will therefore take 100% advantage of the job opportunities offered by the cryptographic industry.

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

### Module 1

#### Liquidity and Decentralized Markets (DEX)



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

TECH offers the possibility of developing this Postgraduate Certificate in Liquidity and Decentralized Markets (DEX) completely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

**Module 1. Liquidity and Decentralized Markets (DEX)**

**1.1. Liquidity optimization strategies**

- 1.1.1. Liquidity in DeFi protocols
- 1.1.2. Liquidity optimization strategies
- 1.1.3. Efficient asset utilization in yield farming

**1.2. Decentralized Markets (DEX)**

- 1.2.1. The decentralized market and its operation
- 1.2.2. Key differences between DEX and centralized exchange (CEX)
- 1.2.3. Types of DEX and their characteristics

**1.3. Popular DEX platforms**

- 1.3.1. Uniswap and its role in the DeFi Revolution
- 1.3.2. SushiSwap and its governance model
- 1.3.3. PancakeSwap and the DEX in the Binance Smart Chain (BSC)

**1.4. Liquidity Providers in DEX**

- 1.4.1. Role and motivations of Liquidity Providers (LP)
- 1.4.2. Strategies and risks associated with liquidity provision
- 1.4.3. LP tools and calculators

**1.5. DEX in different *blockchains***

- 1.5.1. Ethereum-based DEX (ERC-20).
- 1.5.2. DEX in Binance Smart Chain (BSC)
- 1.5.3. DEX on other blockchains (Solana, Polygon, etc.)

**1.6. Risks and security measures in DEX**

- 1.6.1. Common attacks and vulnerabilities in DEX
- 1.6.2. Security strategies for DEX users
- 1.6.3. Smart contract audits

**1.7. Regulation and international legal framework in DEX**

- 1.7.1. Legal considerations for DEX operators and users at the international level
- 1.7.2. Regulatory compliance in a DEX environment
- 1.7.3. Regulatory challenges in global markets

**1.8. Interoperability and the future of DEX**

- 1.8.1. The role of *bridges* in interoperability
- 1.8.2. Technological developments and upgrades in DEX
- 1.8.3. DEX trends and future perspectives

**1.9. Practical exercises on DEX creation**

- 1.9.1. Configuration of a DEX in a test network
- 1.9.2. Participating as a liquidity provider in a DEX
- 1.9.3. Analysis of results and lessons learned

**1.10. Successful DEX Case Studies**

- 1.10.1. Case study 1: Uniswap and the rise of AMMs
- 1.10.2. Case study 2: PancakeSwap and the Binance Smart Chain experience
- 1.10.3. Case study 3: SushiSwap and community governance





# 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.



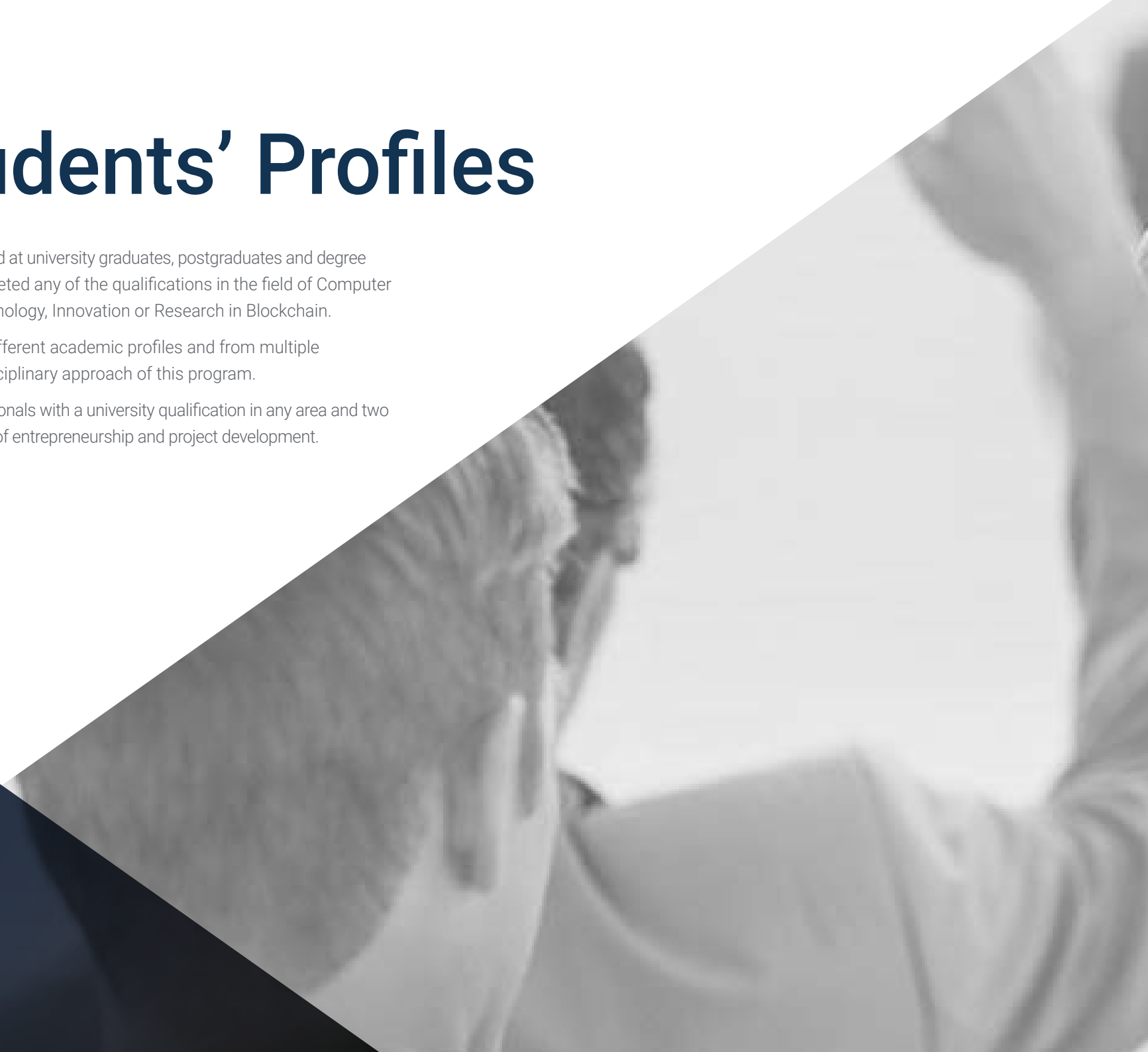
07

# Our Students' Profiles

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

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

The program is also open to professionals with a university qualification in any area and two years of work experience in the field of entrepreneurship and project development.





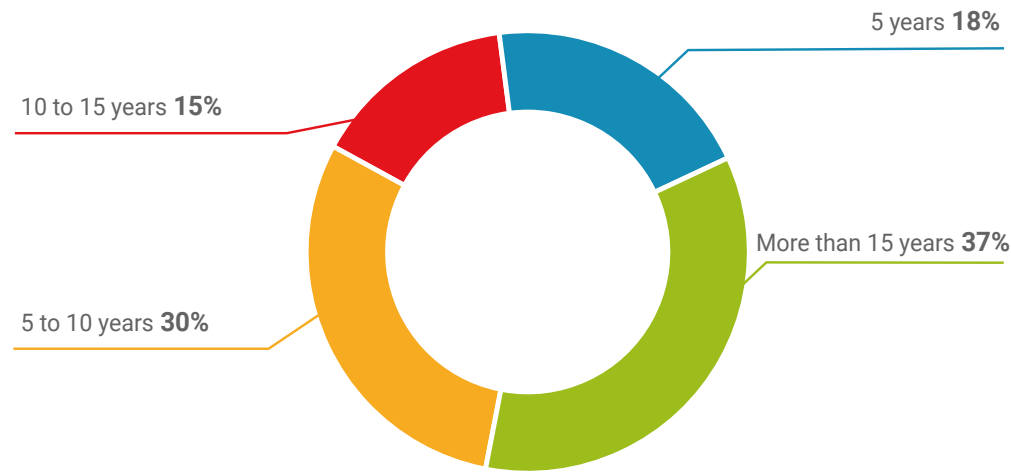
“

*Do you want to learn more about  
liquidity optimization strategies?  
Achieve the best results with TECH”*

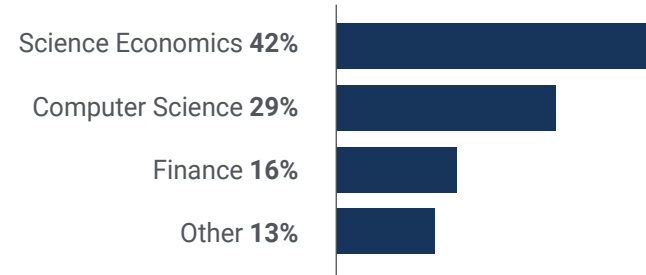
### Average Age

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

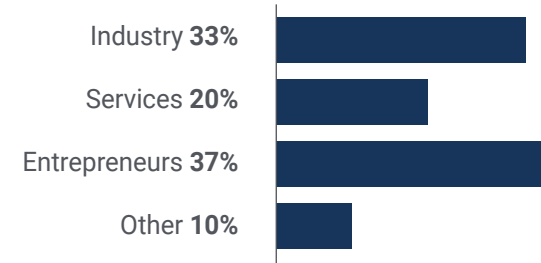
### Years of Experience



### Training

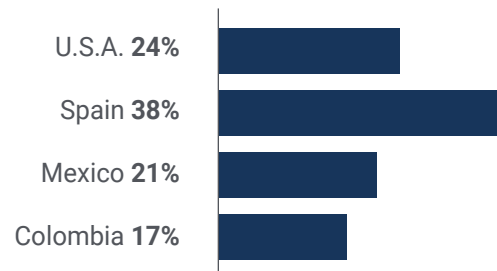


### Academic Profile



## Geographical Distribution

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## Sara Pascual Brito

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Digital Economist

*"The Postgraduate Certificate in Liquidity and Decentralized Markets has been an exceptional educational experience. I feel that I have significantly improved my understanding of how DEXs work and how I can take full advantage of the opportunities they offer"*

08

# Course Management

TECH, in its goal to promote the careers of the business leaders of the future, supports its programs with competitive teaching staff. The best experts have been chosen for this Postgraduate Certificate, with extensive experience in the management of the financial market and its decentralized models. In particular, the members of this faculty have extensive experience implementing *Blockchain* systems in the world of banking and the economy in general. For this reason, the selection of topics for this program is undoubtedly an exclusive and disruptive option within the executive panorama.





“

*You will have the support of a faculty composed of distinguished professionals in the financial sector”*

## Management



### Mr. Hernández Blanco, Miguel

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

## Professors

### Mr. Villa Damas, Alejandro

- ♦ Risk Analyst at Servinform
- ♦ COO at Roommates
- ♦ External Advisor for Corporate Strategy and Expansion
- ♦ Specialist in Technical and Conceptual Bases for the Elaboration of Scientific Articles
- ♦ Official Master's Degree in Trading and Stock Exchange by Traders Business School
- ♦ Graduate in Economics from the University of Seville





09

# Impact on Your Career

This program in Liquidity and Decentralized Markets (DEX) will have a significant impact on the professional career of its students. For this reason, the teaching team that is part of the training has created a program where the quality of the contents stands out. In this way, students will be up to date with all the advances that have arisen in this subject, which is evolving by leaps and bounds. In addition, the new teaching methodology integrated by TECH in their programs will allow students to achieve their professional goals in an optimal way.



“

*This university program will allow you to meet your professional aspirations in just 6 weeks. Enroll now!”*

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

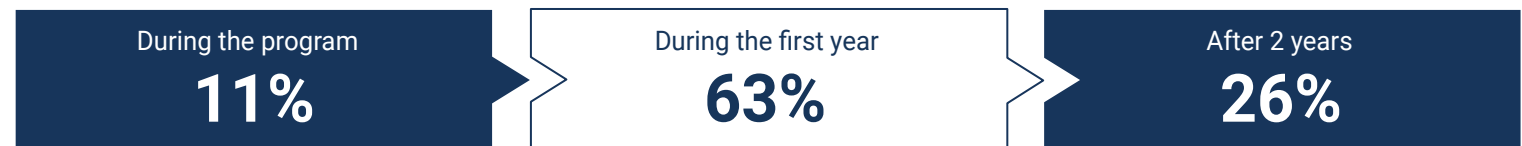
TECH's Postgraduate Certificate in Liquidity and Decentralized Markets (DEX) is an intensive program that prepares you to face challenges and business decisions in the field of DeFi. The main objective is to promote your personal and professional growth. Helping you achieve success!

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

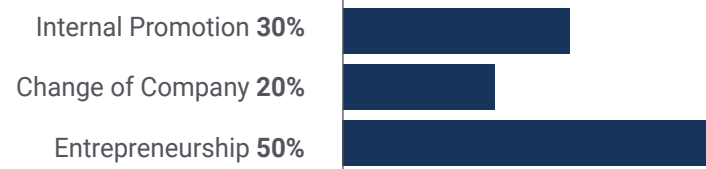
*Get up to date on the latest trends in the PancakeSwap protocol with this pioneering program.*

*Do you want to make a difference in your business environment? Bet on TECH and get it in 6 weeks.*

#### Time of Change



#### Type of change



### Salary increase

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



10

# Benefits for Your Company

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

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



“

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

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

01

### Growth of talent and intellectual capital

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

---

02

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

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

03

### Building agents of change

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

---

04

### Increased international expansion possibilities

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





05

### **Project Development**

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.

---

06

### **Increased competitiveness**

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

# 11

# Certificate

The Postgraduate Certificate in Liquidity and Decentralized Markets (DEX) guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



“

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

This **Postgraduate Certificate in Liquidity and Decentralized Markets (DEX)** 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 certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Liquidity and Decentralized Markets (DEX)**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION 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  
development language  
virtual classroom



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