



# Postgraduate Diploma Hedging Equity Portfolios with Derivatives

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

» Target Group: University Graduates who have previously completed any of the programs in the field of Financial Economics, Accounting, Business or Social and Legal Sciences.

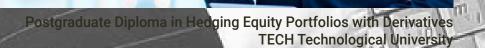
Website: www.techtitute.com/pk/school-of-business/postgraduate-diploma/postgraduate-diploma-hedging-equity-portfolios-derivatives

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## 01 **Welcome**

Currently, international trade is one of the best alternatives to increase business profitability. In this way, it will be possible to make a product known and have the intention of expanding their knowledge, as well as to be able to buy the inputs required for low-cost production in another country. Accordingly, professionals will need to be updated in a sector that is changing day by day. For this reason, this program has been developed with academic tools related to the principles of variable income investment, with emphasis on two key elements such as profitability and risk. All this, through the *Relearning* methodology and a 100% online platform that offers the greatest time flexibility.









## tech 08 | Why Study at TECH?

#### 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

+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 Technological 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 Hedging Equity Portfolios with Derivatives will enable the student to:



Analyze the financial derivatives markets, from their origins in forward transactions to the present day, given that millions of transactions take place every day and involve large equivalent amounts of capital



Determine and compare the management of these expectations with combined option figures



Delve into the principles of equity investing, with special emphasis on the two key elements of return and risk





Delve deeper into the characteristics of trading platforms and derivative contracts in international markets



Differentiate the risks that are inherent in strategies to exploit bullish versus bearish volatility expectations



Examine the possibilities offered by calendar combinations between bought and sold options with different maturities



Examine the possibilities offered by combinations of put and call options with different maturities to improve portfolio performance





Detail the particularities of the most common exotic choices



Analyze and compare the different possibilities of option combinations to progressively improve portfolio performance



Compare the results of each exotic option to improve the return-risk ratio of the equity investment





### tech 20 | Structure and Content

#### **Syllabus**

This university program integrates 450 hours of online learning, in which TECH through elite teaching, will guide the graduate to direct their professional career to the top, reaching the most important positions in the finance sector. In this way, they will overcome the various obstacles they will encounter in the workplace. Likewise, the program provides multiple skills that intervene in detail in the historical profitability of the equity markets.

On the other hand, the teaching team has developed a prestigious syllabus that integrates 3 modules, with the purpose that the student expand their knowledge related to the performance measures of an equity portfolio and risk hedging.

In this sense, the students of this
Postgraduate Course will delve into
the analysis of the financial derivatives
markets, from their origins in forward
transactions to the present day. In this
way, they will become exemplary experts
in the Capital Asset Pricing Modeland the
beta of a financial asset.

For this academic program, the negotiators will be supported by the unique Relearningmethodology. Through it, they will be able to review complex concepts and assimilate their daily application in an instantaneous way. At the same time, the program is taught from an innovative 100% online learning platform that is not subject to fixed schedules or continuous evaluation chronograms.

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules.

Module 1	Derivatives Markets
Module 2	Equity Derivatives
Module 3	Hedging Equity Portfolios with Derivatives



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

TECH offers students the opportunity to take this Postgraduate Diploma in Hedging Equity Portfolios with Derivatives entirely online. Throughout the 6 months of specialization, they will be able to access all the contents on the program at any time, allowing them to self-manage their study time.

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

## tech 22 | Structure and Content

Module 1. Derivatives Markets						
<b>1.1.</b> 1.1.1. 1.1.2. 1.1.3.	Forward Contracts Risk in Operations Type of Risk Positions: Long and Short Risk Coverage	<ul><li>1.2. Organized Derivatives Markets</li><li>1.2.1. Elimination of Counterparty Risk</li><li>1.2.2. The Clearing House</li><li>1.2.3. Standardized Contracts</li></ul>	1.3. 1.3.1. 1.3.2. 1.3.3.	Coverage Ratio	1.4.2.	Leverage Correct Use Leverage The Leverage Limit Risks Caused by the Abuse of Leverage
<b>1.5.</b> 1.5.1. 1.5.2. 1.5.3.	Financial Options Types Financial Options Call Options and Put Options European options and American options	<ul> <li>1.6. Elements in Financial Options</li> <li>1.6.1. Strike or Option Exercise Price</li> <li>1.6.2. Time to Expiration of the Option</li> <li>1.6.3. Volatility</li> <li>1.6.4. Hedging with Financial Options</li> </ul>	1.7. 1.7.1. 1.7.2.	Use of the Coverage Ratio Limitations on Hedging with Options Hedging Transactions with Purchased Options Hedging Transactions with Sold Options	1.8.1. 1.8.2.	Investment and Arbitrage with Financial Options Investment Transactions with Purchased Options Investment Transactions with Sold Options Options Arbitrage Operations
1.9.1. 1.9.2. 1.9.3.	Calculation of Margins in Basic Option Positions Options Purchased and Options Sold Strike Daily Settlement Procedure on Account of Warranties with Options	1.10. International Derivatives Markets 1.10.1. European Markets 1.10.2. American Markets 1.10.3. Unorganized International Markets				

Module 2. Equity Derivatives						
<b>2.1.</b> 2.1.1 2.1.2	in Shares: Components	<ul> <li>2.2. Equity Risk Valuation Measures</li> <li>2.2.1. Measures of Dispersion: Standard Deviation</li> <li>2.2.2. Capital Asset Pricing Model and the Beta of a Financial Asset</li> <li>2.2.3. Asymmetric Risk Measures</li> </ul>	<ul> <li>2.3. Portfolios Comprised of Equity Assets</li> <li>2.3.1. Return and Risk of an Equity Portfolio</li> <li>2.3.2. Diversification</li> <li>2.3.3. Performance Measures of an Equity Portfolio</li> </ul>	<ul> <li>2.4. Equity Portfolio Management</li> <li>2.4.1. Passive Management: Search for a Suitable Benchmark</li> <li>2.4.2. Active Management: Search for Alpha</li> <li>2.4.3. Alternative Management: Search for Positive Return</li> </ul>		
2.5.1 2.5.2 2.5.2 2.5.3	and Portfolio Management  Multifactorial Models  Value at Risk (VAR) Models	<ul> <li>2.6. Criteria for the Program of Active Management Portfolios in a Long-Term Perspective</li> <li>2.6.1. Criteria Based on Long-Term Perspectives</li> <li>2.6.2. Strategic Asset Allocation</li> <li>2.6.3. Fundamental Analysis</li> </ul>	<ul> <li>2.7. Criteria for the Program of Active Management Portfolios in a Short-Term Perspective</li> <li>2.7.1. Criteria Based on Short-Term Perspectives</li> <li>2.7.2. Graphical Analysis</li> <li>2.7.3. Statistical Analysis</li> </ul>	<ul> <li>2.8. Hedging of Investment in Individual Shares</li> <li>2.8.1. Coverage Ratio Use of Futures</li> <li>2.8.2. Hedging with Purchased Options</li> <li>2.8.3. Hedging with Sold Options</li> </ul>		
2.9.1 2.9.1 2.9.2 2.9.3	Equity Portfolios  Coverage Ratio Portfolio Beta  Portfolio Hedging with Futures	<ul> <li>2.10. Limitations of Option Coverage</li> <li>2.10.1. Influence on the Coverage of the Estimated Period at Risk</li> <li>2.10.2. Influence on Option Strike Coverage</li> <li>2.10.3. Influence on Option Maturity Hedging</li> </ul>				

## tech 24 | Structure and Content

Module 3. Equity Derivatives							
3.1.	Hedging Equity Portfolios with Derivative Strategies		dging Equity Portfolios with arish Spreads	3.3.	Hedging Equity Portfolios with Bearish Ratios	3.4.	Hedging Equity Portfolios with Bearish Combos
	Hedging with Sold Futures Hedging with Purchased Puts		nagement and Closing of Coverage when ffers Benefits	3.3.1.	Management and Closing of Coverage when It Offers Benefits	3.4.1.	Management and Closing of Coverage when It Offers Benefits
3.1.3.	Hedging with Calls Sold		nagement and Closing of the Hedge when ffers Losses	3.3.2.	Management and Closing of the Hedge when It Offers Losses	3.4.2.	Management and Closing of the Hedge when It Offers Losses
			verage Maturity Maintenance and Roll- er Process	3.3.3.	Coverage Maturity Maintenance and Roll- Over Process	3.4.3.	Coverage Maturity Maintenance and Roll- Over Process
3.5.	Partial Hedging of Equity Portfolios with Combined Strategies		dging Equity Portfolios with lendar Spreads	3.7.	Hedging Equity Portfolios with Calendar Ratios	3.8.	Hedging Equity Portfolios with Calendar Combos
3.5.1. 3.5.2.	Partial Hedging with Bearish Spreads Partial Hedging with Bearish Ratios		nagement and Closing of Coverage when ffers Benefits	3.7.1.	Management and Closing of Coverage when It Offers Benefits	3.8.1.	Management and Closing of Coverage when It Offers Benefits
3.5.3.	Partial Hedging with Bearish Combos		nagement and Closing of the Hedge when ffers Losses	3.7.2.	Management and Closing of the Hedge when It Offers Losses	3.8.2.	Management and Closing of the Hedge when It Offers Losses
			verage Maturity Maintenance and Roll- er Process	3.7.3.	Coverage Maturity Maintenance and Roll- Over Process	3.8.3.	Coverage Maturity Maintenance and Roll- Over Process
3.9.	Partial Hedging of Equity Portfolios with Calendar Strategies		timal Hedging of Equity rtfolios Based on Expectations				
3.9.1. 3.9.2.	Partial Hedging with Calendar Spreads Partial Hedging with Calendar Ratios		imal Hedging with Strong Downside ectations				
3.9.3.	Partial Coverage with Calendar Combos	3.10.2. Opti	imal Hedging with Expectations of a ottle Fall				
			imal Hedging with Expectations of a arp Rise in Volatility				





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.

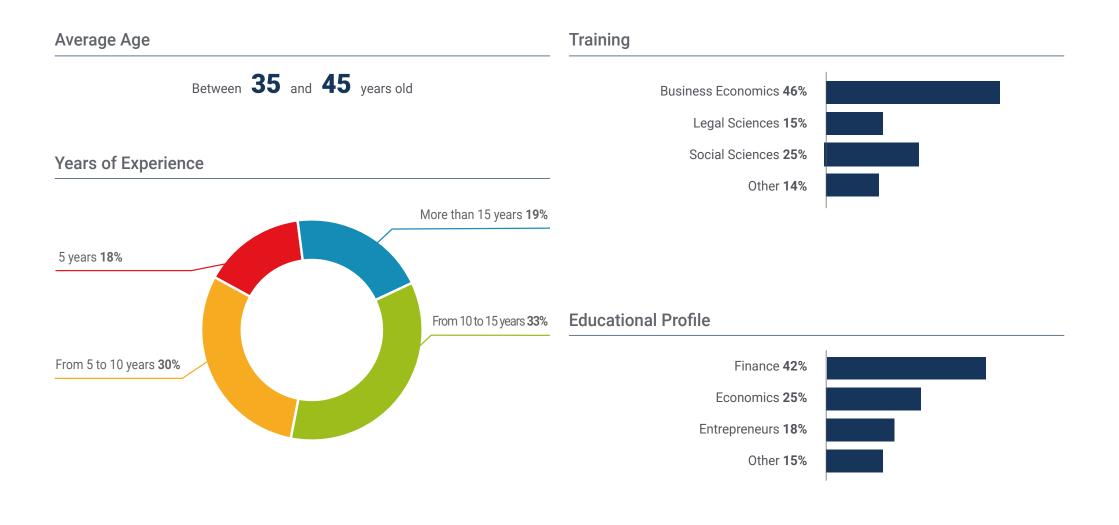


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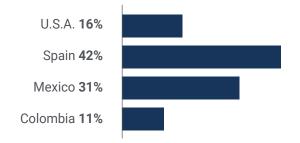


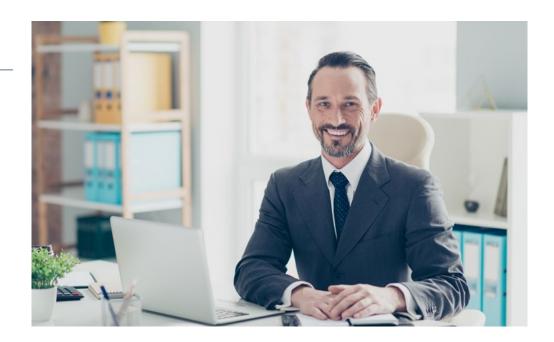


### tech 36 | Our Students' Profiles



#### **Geographical Distribution**





# Roberto Quijada

#### Private banking manager

For me doing this program was a big change in my career. It made it easier for me to see much more optimal strategic analysis and methods. All this led me to the optimization of investment portfolios and to progress in my professional career"





# tech 40 | Course Management

#### Management



#### Dr. Sarto Marzal, José Luis

- Portfolio manager in organized derivatives markets
- Chief Financial Officer at Celulosa Fabril
- Teacher in Graduate Degree in Finance and Accounting at the University of Zaragoza
- Doctorate in Economics and Business Administration with Cum Laude mention from the University of Zaragoza
- Degree in Economics and Business Administration with a major in Finance from the University of Zaragoza

#### **Professors**

#### Dr. Andreu Sánchez, Laura

- Accounting and Finance Expert
- Researcher in projects supported by the Ministry of Science and Innovation and the Government of Aragon
- Teacher in Masters, Diplomas and Degrees at the University of Zaragoza
- D. in Accounting and Finance with distinction Cum Laude from the University of Zaragoza
- Degree in Business Administration and Management from the University of Zaragoza
- Postgraduate Certificate of Specialization in Financial Advisory and Wealth Management from the University of Zaragoza

#### Dr. Gimeno Losilla, Ruth

- Accounting and Finance Expert
- Teacher in the Accounting and Finance Department of the University of Zaragoza
- Researcher in projects for the Ministry of L+O+I, the Government of Aragon and the Ibercaja Banking Foundation
- Researcher in innovative teaching projects
- PhD in Accounting and Finance from the University of Zaragoza



# Course Management | 41 tech

#### Dr. Serrano Cored, Miguel

- Expert in Accounting and Finance
- Outbound Advisor (Work Force Management WFM) at Majorel SP Solutions
- Team Leader of Collection Agents at Majorel SP Solutions
- Collections Agent at Majorel SP Solutions
- Administrative at Ibercaja
- D. in Accounting and Finance
- Degree in Business Administration and Management with a major in Finance from the University of Zaragoza
- Postgraduate Certificate in Business Science
- Master's Degree in Accounting and Finance from the University of Zaragoza



Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"





# tech 44 | Impact on Your Career

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

TECH's Postgraduate Diploma in Hedging Equity Portfolios with Derivatives is an intensive program that prepares you to face challenges and business decisions in the field of finance. The main objective is to promote your personal and professional growth. Helping you achieve success.

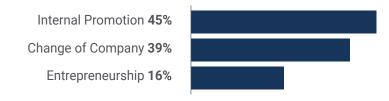
Take advantage of this exclusive and prestigious opportunity to enhance your competencies in Money Management Models through TECH, the best online university in the world according to Forbes.

The performance measures of an equity portfolio is another of the knowledge you will have in your hands after this comprehensive 450-hour Postgraduate Diploma.

#### **Time of Change**



#### Type of change



### Salary increase

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

Salary before

\$68,000

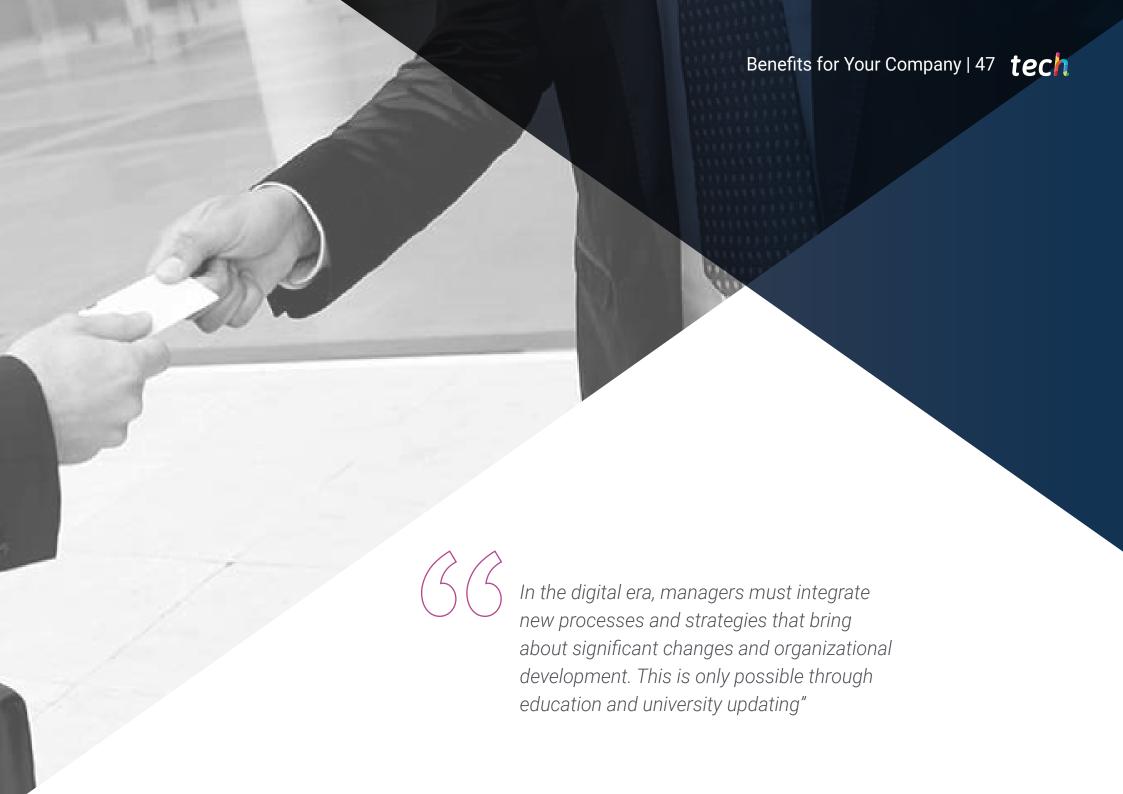
A salary increase of

26.24%

Salary after

\$75,744





# 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 **Postgraduate Diploma in Hedging Equity Portfolios with Derivatives** 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 Diploma**, issued by **TECH Technological University** via tracked delivery\*.

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

Title: Postgraduate Diploma in Hedging Equity Portfolios with Derivatives

Official No of Hours: 450 h.



<sup>\*</sup>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.



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