



## Postgraduate Diploma Initiation and Management of Technology Projects

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

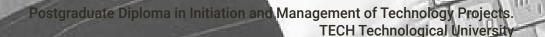
 $We bsite: {\color{blue}www.techtitute.com/in/school-of-business/postgraduate-diploma/postgraduate-diploma-initiation-management-technology-projects} \\$ 

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# 01 **Welcome**

The management of technology projects becomes more complex as the years go by. The evolution of technologies is unstoppable and projects that used to take years to develop are now implemented in much less time. Therefore, the figure of the Technology Project Manager must have a series of unique qualities and capabilities that distinguish them with excellence over other competitors. TECH has developed this degree with this in mind, thinking of professionals who seek to give a plus of quality to their career and orient it towards managerial positions of greater responsibility and economic remuneration.









## tech 08 | Why Study at TECH?

#### At TECH Technological University



#### **Innovation**

The university offers an online learning model that combines 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.

100,000+

200+

executives trained 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 studies in the academic community"

### 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 method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.



#### **Economy of Scale**

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.





## tech 12 | Why Our Program?

This program will provide students with a multitude of professional and personal advantages, particularly the following:



#### A significant career boost

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 participants achieve positive career development in less than 2 years.



## Develop a strategic and global vision of companies

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional areas.

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.



#### 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 areas 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.



#### Be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified professors from the most prestigious universities in the world: the TECH Technological University community.

We give you the opportunity to train with a team of world renowned teachers.





## tech 16 | Objectives

TECH makes the objectives of its students its own.

We work together to achieve them.

The Postgraduate Diploma in Initiation and Management of Technology Projects will enable the student to:



Develop skills and abilities necessary to make decisions in all types of projects, especially technological projects, multidisciplinary contexts and environments



Provide a global and strategic vision of all operational departments of the company



Acquire the ability to analyze and diagnose business and management problems in the different areas of knowledge of project management

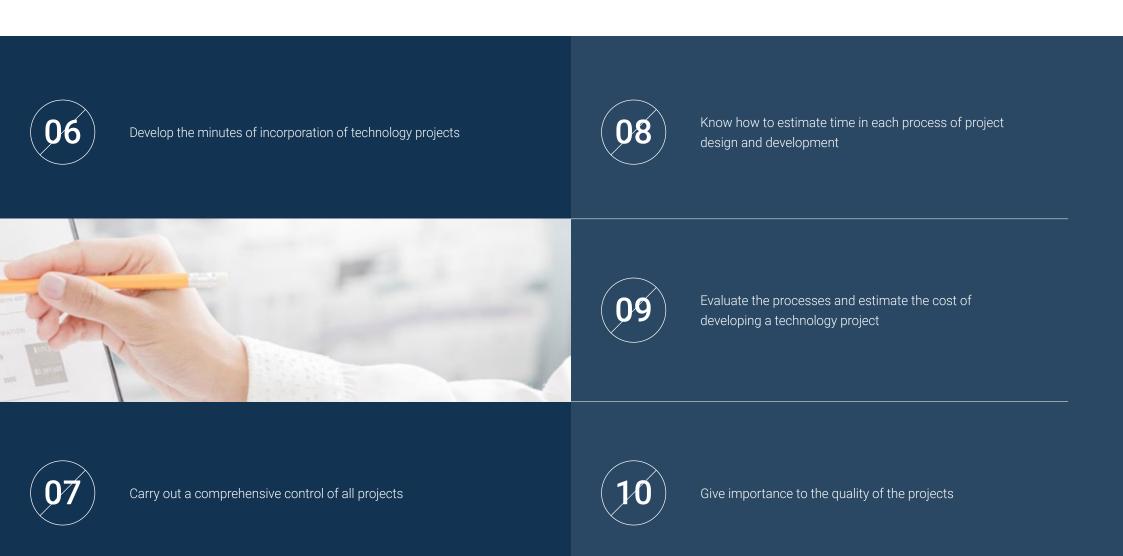




Master advanced business management tools to identify and anticipate opportunities, allocate resources, organize information, select, motivate and manage people, make decisions, achieve proposed objectives and evaluate results



Assume responsibilities and think in a transversal and integrative way to analyze and solve situations in uncertain environments





Be able to audit the quality of each of the processes involved in the project design



Understand the cost of failing to meet project quality



Perform quality controls at each stage of the project







Acquire techniques and skills to manage human resources and be able to resolve conflicts in the team

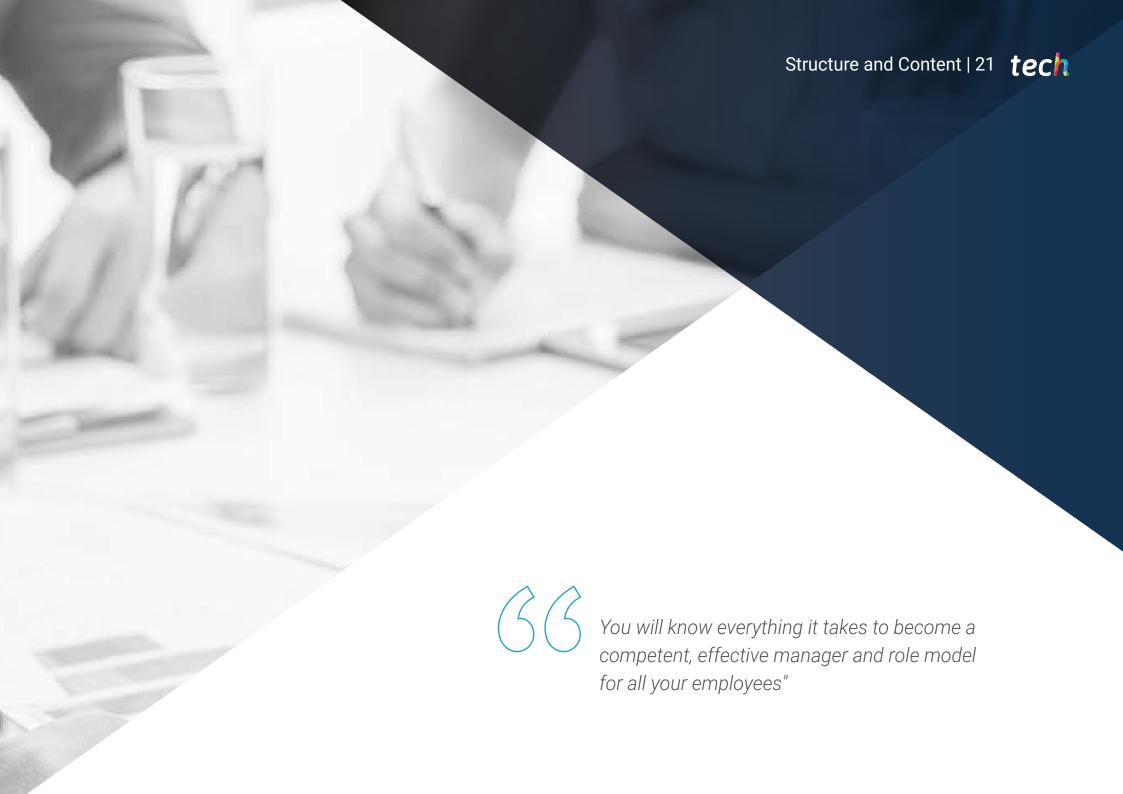


Know the emerging trends in the market



Develop Communicative skills





### tech 22 | Structure and Content

#### **Syllabus**

itiation and Management of Technology Projects is an intense program designed by directors of large Technological Projects, guaranteeing the student a real and current vision of the professional panorama, with the best practices to follow and the measures to use to succeed in this position of responsibility. In this way, TECH prepares future graduates to face the challenges they face in an effective manner.

Throughout the syllabus, structured in 3 modules, all aspects of Technological Project management will be analyzed, learning the key concepts in this field, the processes of identification, definition, unification and coordination and the mastery of human resources.

A journey that will lead students to the analysis of the keys to success of projects in different environments, and to the reflection on the essential management of time on their way to ef ficiency, cost management, quality, resources, communications, risk assessment, and procurement and certification management.

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

Module 1 Introduction to the design and management of technology projects and management of the integration of technology projects

Module 2 Technology Project Scope Management

Module 3 Communications and Stakeholder Management for Technology Projects



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

TECH offers the possibility of studying this Postgraduate Diploma 100% online, facilitating the student's preparation as an employee. The program is developed over 6 months, during which time you can access all the contents of the plan at any time you wish.

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

## tech 24 | Structure and Content

Module 1. Introduction to the design and m	nanagement of technology projects and mar	agement of the integration of technology proje	cts
<ul> <li>1.1. Introduction to Technology Project Management</li> <li>1.1.1. Project Manager Role</li> <li>1.1.2. Project Definition</li> <li>1.1.3. Organisational Structure</li> </ul>	<ul> <li>1.2. Project Management, Program Management and Portfolio Management</li> <li>1.2.1. Portfolios, Programs and Projects</li> <li>1.2.2. Strategic Management</li> </ul>	<ul> <li>1.3. Standards and Best Practices for the Management of Technological Projects</li> <li>1.3.1. Prince 2</li> <li>1.3.2. PMP</li> <li>1.3.3. ISO 21500:2012</li> </ul>	<ul> <li>1.4. Organizational Influences on Technology Project Design and Management</li> <li>1.4.1. Environmental Factors in an Enterprise</li> <li>1.4.2. Process Assets of an Organization</li> </ul>
<ul> <li>1.5. Processes of Technology Project Management</li> <li>1.5.1. Life Cycle of Technology Projects</li> <li>1.5.2. Process Groups</li> <li>1.5.3. Dynamics of Process Groups</li> </ul>	<ul> <li>1.6. Development of the Act of Incorporation of Technological Projects</li> <li>1.6.1. Definition of the Act of Incorporation of Technological Projects</li> <li>1.6.2. Tools and Techniques</li> </ul>	<ul> <li>1.7. Development of the Plan for the Design and Management of Technological Projects</li> <li>1.7.1. Definition of the Plan for the Design and Management of Technological Projects</li> <li>1.7.2. Tools and Techniques</li> </ul>	<ul> <li>1.8. Knowledge Management of Technological Projects</li> <li>1.8.1. Importance of Knowledge Management in Technology Projects</li> <li>1.8.2. Tools and Techniques</li> </ul>
<ul> <li>1.9. Monitor the Work of the Technological Projects</li> <li>1.9.1. Work Monitoring and Control</li> <li>1.9.2. Follow-up Reports on Technological Projects</li> <li>1.9.3. Tools and Techniques</li> </ul>	<ul> <li>1.10. Integrated Change Control in Technology Projects</li> <li>1.10.1. Project Change Control Objectives and Benefits</li> <li>1.10.2. CCB (Change Control Board)</li> <li>1.10.3. Tools and Techniques</li> </ul>	<ul><li>1.11. Delivery and Closing of Technological Projects</li><li>1.11.1. Objectives and Benefits of Closing a Project</li><li>1.11.2. Tools and Techniques</li></ul>	
<b>Module 2.</b> Technology Project Scope Mana	gement		
<ul><li>2.1. Introduction to Scope Management</li><li>2.1.1. Scope of the Project</li><li>2.1.2. Scope of the Product</li></ul>	<ul><li>2.2. Fundamentals and Scope Management</li><li>2.2.1. Basic Concepts</li><li>2.2.2. Baseline of the Scope</li></ul>	<ul><li>2.3. Benefits of Scope Management</li><li>2.3.1. Stakeholder Expectation Management</li><li>2.3.2. Scoop Creep and Gold Plating</li></ul>	<ul> <li>2.4. Considerations for Adaptive environments</li> <li>2.4.1. Types of Adaptive Projects</li> <li>2.4.2. Scope Definition in Adaptive Projects</li> </ul>
<ul><li>2.5. Planning and Scope Management</li><li>2.5.1. Scope Management Plan</li><li>2.5.2. Requirements Management Plan</li><li>2.5.3. Tools and Techniques</li></ul>	<ul><li>2.6. Gather Requirements</li><li>2.6.1. Requirements Gathering and Negotiation</li><li>2.6.2. Tools and Techniques</li></ul>	<ul><li>2.7. Definition of Scope</li><li>2.7.1. Project Scope Statement</li><li>2.7.2. Tools and Techniques</li></ul>	<ul> <li>2.8. Creation of the Work Breakdown Structure (WBS)</li> <li>2.8.1. Work Breakdown Structure (WBS)</li> <li>2.8.2. Types of EDT</li> <li>2.8.3. Rolling Wave</li> <li>2.8.4. Tools and Techniques</li> </ul>
<ul><li>2.9. Scope Validation</li><li>2.9.1. Quality Vs Validation</li><li>2.9.2. Tools and Techniques</li></ul>	2.10. Scope Control 2.10.1. Data and Information about Project Management 2.10.2. Types of Performance Reports 2.10.3. Tools and Techniques		

Mod	lule 3. Communications and Stakehold	er Man	agement for Technology Projects				
3.1.1. 3.1.2. 3.1.3. 3.1.4. 3.1.5.	Important?	3.2.7.	Communication Skills Conscious Emission Active Listening Empathy Avoid Bad Gestures Read and Write Respect Persuasion Credibility	3.3. 3.3.1. 3.3.2. 3.3.3. 3.3.4. 3.3.5. 3.3.6. 3.3.7. 3.3.8.	Effective, Efficient Communication and Types of Communication Definition Effective Communication Efficient Communication Formal Communication Informal Communication Written Communication Verbal Communication Practical Exercises on the Use of Communication Types on a Project	3.4.1. 3.4.2. 3.4.3. 3.4.4.	and Control Project Communications Management
3.5.	Emerging Trends and Practices in the Communication Field	3.6.	Identification and Analysis of the Stakeholders	<b>3.7.</b> 3.7.1.	Stakeholder Management Planning Adequate Management Strategies	3.8.	Stakeholder Engagement Management Management
3.5.1. 3.5.2. 3.5.3. 3.5.4.	Evaluation of Communication Styles Political Conscience Cultural Conscience	3.6.1. 3.6.2. 3.6.3. 3.6.4.	Analysis and Register of Stakeholders	3.7.2.	Tools and Techniques	3.8.1. 3.8.2.	Strategy Methods for Increasing Support and Minimizing Resistance Tools and Techniques



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

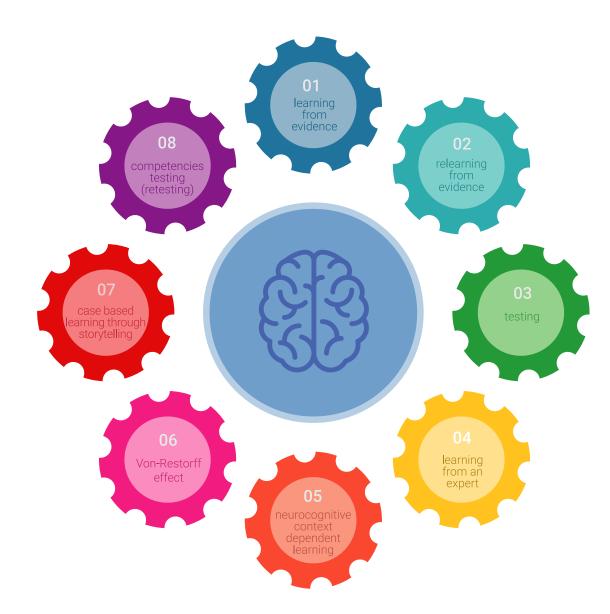
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.



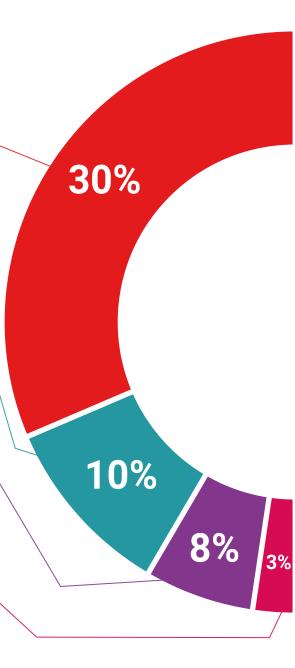
#### **Management Skills Exercises**

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.

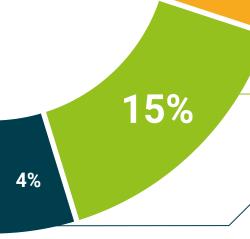


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

#### **Testing & Retesting**

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.



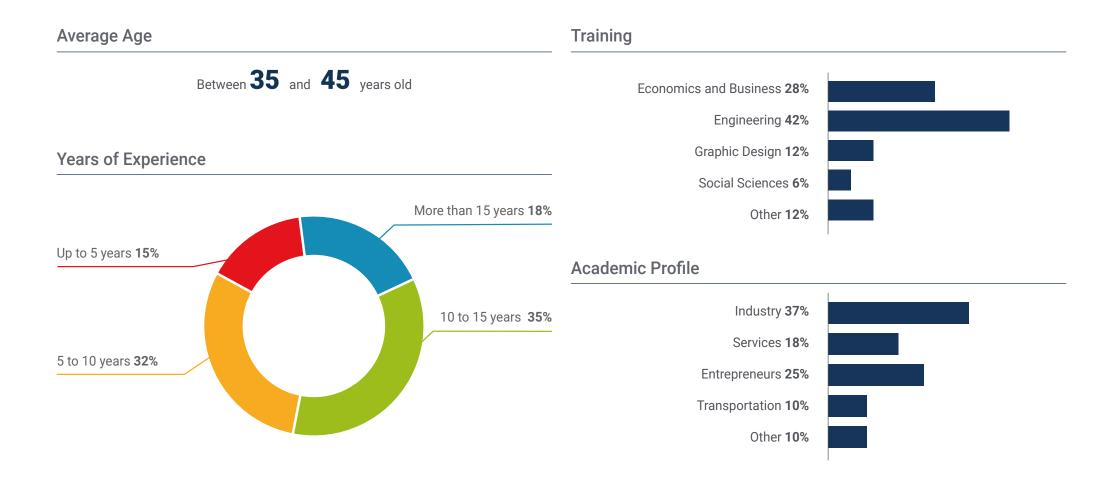


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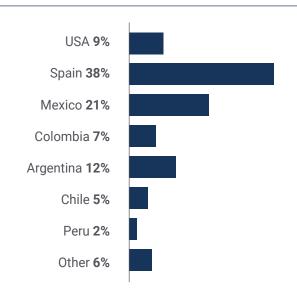




## tech 36 | Our Students' Profiles



#### **Geographical Distribution**





## Patricia Jodra

**Technology Project Manager** 

"Thanks to the fact that I decided to do this Postgraduate Diploma in Initiation and Management of Technology Projects of TECH Technological University I have been able to develop myself in a competitive world, gaining confidence day after day by putting into practice all the knowledge I assimilated. By exploiting my capabilities to the fullest, I have gained the trust of my team and have been able to promote projects I have always dreamed of. The fact that I was able to do the program from home allowed me to combine my private life with the preparation, which was a plus for me"





#### Management



#### Dr. Romero Mariño, Brunil Dalila

- Database Administration OCREM Association Granada
- Software projects and technological architecture consultant for different companies Venezuela
- University Professor of Computer Science Department of Processes and Systems Simón Bolívar (USB) University Venezuela
- Researcher in Software Engineering and related areas Department of Processes and Systems Simón Bolívar (USB) University Venezuela
- Systems Engineer from Universidad Bicentenaria de Aragua (UBA). Venezuela
- Expert in Communications and Data Communication Networks, Universidad Central de Venezuela (UCV).
- Master's degree in Systems Engineering from Universidad Simón Bolívar (USB) Venezuela
- D. in Information and Communication Technologies from the University of Granada (UGR). Spain







## tech 44 | Impact on Your Career

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

This intensive TECH program prepares its students for the most common challenges at the head of a Technology Project development team, instructing them in the most crucial part of the project, which is none other than its initiation and execution.

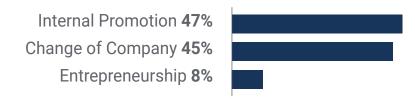
Don't miss the opportunity that TECH offers you and invest in your future.

If you want to make a positive change in your profession, the Postgraduate Diploma in Initiation and Management of Technology Projects will help you achieve it.

#### When the change occurs



#### Type of change



## Salary increase

This program represents a salary increase of more than **25%** for our students.

\$57,900

A salary increase of

25.22%

\$72,500





## tech 48 | Benefits for Your Company

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



## Intellectual Capital and Talent Growth

The student 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

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



### **Building agents of change**

The student 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 will be able to work on a real project or develop new projects in the field of R&D or Business Development of their 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 Programming and Costing of Technology Projects** contains the most complete and up-to-date program on the market.

After the student has passed the evaluations, 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 Programming and Costing of Technology Projects

Official N° 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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