



# Postgraduate Diploma

IT Project and Team Management in Technological Environments

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-it-project-team-management-technological-environments

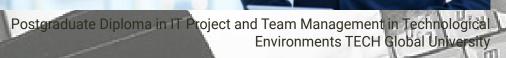
# Index

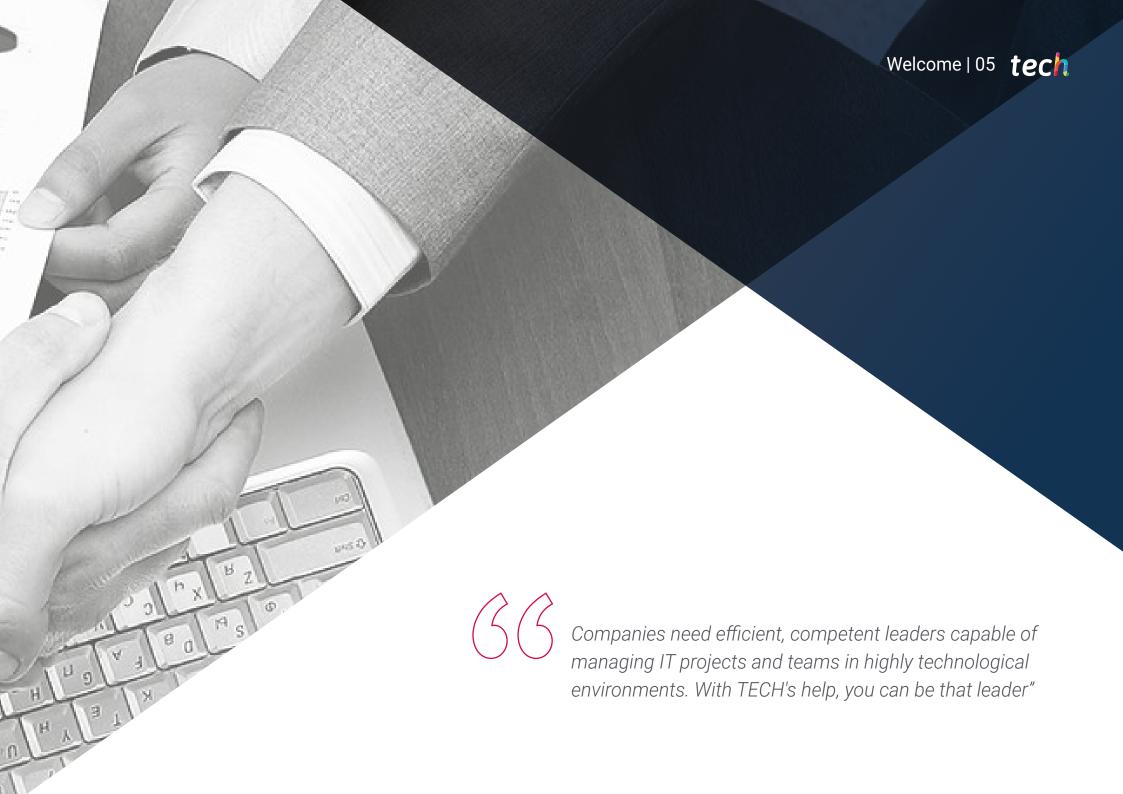
02 Why Study at TECH? Why Our Program? Objectives Welcome p. 4 p. 6 p. 10 p. 14 06 Our Students' Profiles Methodology Structure and Content p. 18 p. 26 p. 34 80 Course Management Impact on Your Career Benefits for Your Company p. 42 p. 38 p. 46 Certificate

p. 50

# 01 **Welcome**

In the midst of the digital transformation in many sectors, the figure of the technology project manager has become essential for the vast majority of companies. This indemand profile requires a high level of technical knowledge of the tasks performed by the team, as well as management and efficient leadership skills. This program prepares students in the management of computer projects and teams in a technological environment, enabling them to aspire to positions of greater responsibility and financial compensation. Supported by didactic material created by the best experts in the industry, students will be able to meet demand for specialization in constantly growing a sector.









# tech 08 | Why Study at TECH?

#### At TECH Global 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 Global University community.

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





# tech 16 | Objectives

TECH makes the goals of their students their own goals too. Together they work to achieve them.

The Postgraduate Diploma in IT Project and Team Management in Technological Environments will allow students to:









## tech 20 | Structure and Content

#### **Syllabus**

The Postgraduate Diploma in IT Project and Team Management in Technological Environments at TECH Global University is an intensive program that prepares students to face challenges and business decisions in the world of project management in technological environments. Its content is designed to promote the development of managerial skills that enable more rigorous decisionmaking in uncertain environments.

Over 450 teaching hours, students will learn the different *frameworks* to efficiently operate a work team, as well as various techniques to promote a healthy relationship between the different members for better overall performance.

This Postgraduate Diploma delves into the most innovative work methodologies in the area of technological project management, valuing both technical and human factors in the management of such a specialized work team.

A curriculum for students to focus their professional career toward the most demanded positions of responsibility and management in the industry. With the innovative program content, supported by the best educational methodology and an exceptional teaching staff, graduates will stand out above the rest of candidates in leading professional IT project teams.

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

Module 1 Using Agile in Technology Project Direction and Management

Requirements Management and Process Analysis in Software
Development Projects

Module 3 Team Management in IT Projects



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

TECH offers the possibility of developing this Postgraduate Diploma in IT Project and Team Management in Technological Environments completely online. Over the course of 6 months, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

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

# tech 22 | Structure and Content

Module 1. Agile Technology Project Direction and Management								
<b>1.1.</b> 1.1.1. 1.1.2.	Project Management Project Management Phases of a Project	1.2.1. 1.2.2. 1.2.3.	Project Direction According to the Project Management Institute PMI and PMBOK Project, Program and Project Portfolio Evolution and Process Assets at Organizations That Work with Projects	1.3. 1.3.1. 1.3.2.	Process Management according to the Process Management Institute Process Groups and Knowledge Areas Process Matrix	1.4.2.	Agile Methodologies for Project Management  Application Motivation Agile Values and Principles in the Agile Manifesto Application Scenarios	
	Scrum for Agile Project Management: Framework Description Agile Management Framework Scrum Pillars and Values	1.6. 1.6.1. 1.6.2. 1.6.3.	Scrum for Agile Project Management: Implementing Models Framework Implementation People, Roles and Responsibilities on Scrum Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective and Sprint Refinement	1.7. 1.7.1. 1.7.2. 1.7.3.	Scrum for Agile Project Management Product Backlog, Sprint Backlog and Incremental Backlog Scrum Team Agreements Performance Assessment	1.8. 1.8.1. 1.8.2. 1.8.3.	KANBAN for Agile Project Management The Model Kanban Method, Elements and Benefits Typical Usage Scenarios	
1.9.2.	KANBAN for Agile Project Management: Implementing Models Fundame Application Performance Assessment	1.10.1 1.10.2	Project Direction Model Selection  Criteria for Selecting a Management Model Type Traditional Methods vs. Agile Methods Conclusions					

Mod	Module 2. Requirements Management and Process Analysis in Software Development Projects							
2.1.2.	Systems Analysis Systems Analyst Functions Software Development Cycle: SDLC and 00 Agile SDLC, 00 and Agile	2.2.1. 2.2.2. 2.2.3.	Importance of Systems Analysis and Design Information Systems Integrating IT Technologies: HW and Software Methodology Selection	2.3. 2.3.1. 2.3.2. 2.3.3. 2.3.4.	Campaigns and Types Redemption and Drive		Integration	
	Requirements Interactive Methods: Interviews, JAD and Questionnaires Non-Interactive Methods: Observation, Document Review Sampling Techniques: Sampling	2.6.2.	Processes Analysis: DFDs  Multilevel DFD Development Types of DFDs: Physical and Logical, Based on Events Partitioning DFDs	2.7. 2.7.1. 2.7.2. 2.7.3.	Creating Data Dictionaries Based on Previous DAFD	2.8.1. 2.8.2. 2.8.3.		
2.9.2.	Importance of Design Output Design Input Design Validating Design	2.10.1 2.10.2	Database Design  Normalization of Data  E-R Diagrams: One-to-many and Many-to-many Relationships Destandardization					

# tech 24 | Structure and Content

Module 3. Team Management in IT Projects							
3.1.3.	Team Management  Management Skills  Human Capital Management and Managerial Functions  Classification and Types of Management Skills Group Leadership Management in Companies	3.2. 3.2.1. 3.2.2. 3.2.3. 3.2.4.	Team Building Team Management Performance Evaluation Delegation and Empowerment Commitment Management	3.3. 3.3.1. 3.3.2. 3.3.3. 3.3.4. 3.3.5.	Work Teams Culture: Mission, Vision, Values Planning and Strategy Organization and Monitoring Feedback and Feedforward Results Assessment	<b>3.4.</b> 3.4.1. 3.4.2. 3.4.3. 3.4.4.	Stages in Team Training Dependence Stage Counter-Dependence Stage Independence Stage Interdependence Stage
<b>3.5.</b> 3.5.1. 3.5.2. 3.5.3. 3.5.4.	IT Project Organization Company Planning Time Planning Resource Planning Costs Planning	<b>3.6.</b> 3.6.1. 3.6.2. 3.6.3. 3.6.4.	Talent Management in Companies Talent Talent Management Talent Dimensions Attracting Talent	<b>3.7.</b> 3.7.1.	Company Communication The Company's Communication Process 3.7.1.1. Internal Relationships and Communication in Companies 3.7.1.2. Relation between Company Organization and Communication: Centralization or Decentralization 3.7.1.3. Internal and External Communication Tools	3.7.2.	Interpersonal Relations in the Company 3.7.2.1 Interpersonal Communication and Conflicts 3.7.2.2. Communication Filters and Barriers 3.7.2.3. Criticism and Active Listening 3.7.2.4. Active Listening Techniques
3.8.1.	Negotiation Techniques in Companies  Negotiation at the Managerial Level in Technology Companies 3.8.1.1. Negotiation 3.8.1.2. Styles of Negotiation 3.8.1.3. Negotiation Phases Negotiation Techniques 3.8.2.1. Negotiation Strategies and Tactics 3.8.2.2. Negotiation Types The Figure of the Negotiating Subject 3.8.3.1. Negotiator Characteristics 3.8.3.2. Types of Negotiators 3.8.3.3. Psychology in Negotiation	3.9. 3.9.1. 3.9.2. 3.9.3.	Coaching and Business Management Business Coaching Coaching in Practice Coaching in Organizations	3.10.1 3.10.2 3.10.3	Mentoring and Business Management  Mentoring The 4 Processes of a Mentoring Programme 3.10.2.1. Processes 3.10.2.2. Mentors in Companies 3.10.2.3. Protégés in Technological Companies Benefits of Mentoring in Companies 3.10.3.1. Benefits to the Organization: Mentor and Mentee Differences between Mentoring and Coaching3.8. Negotiation Techniques in Companies		





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

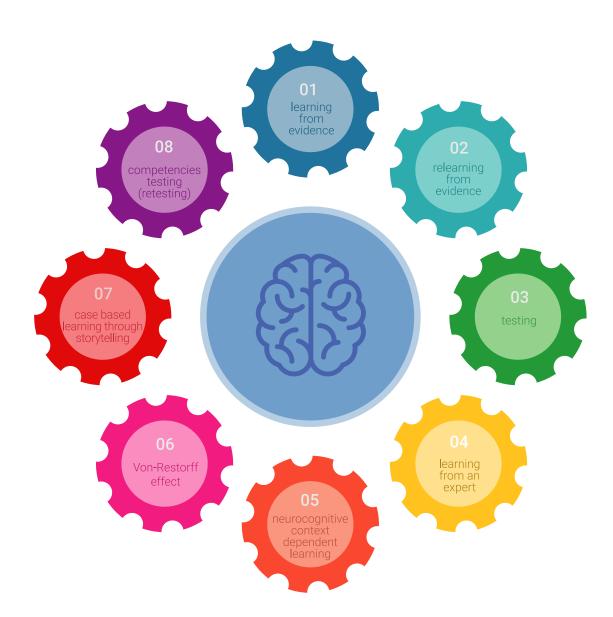
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.



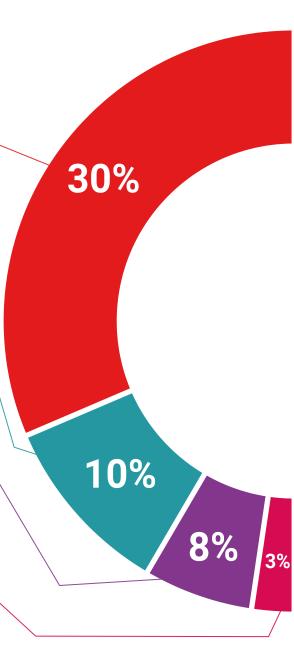
#### **Management Skills Exercises**

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.

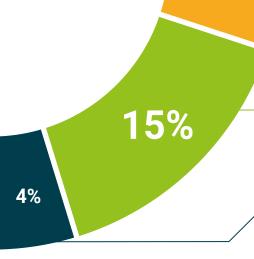


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

#### **Testing & Retesting**

 $\bigcirc$ 

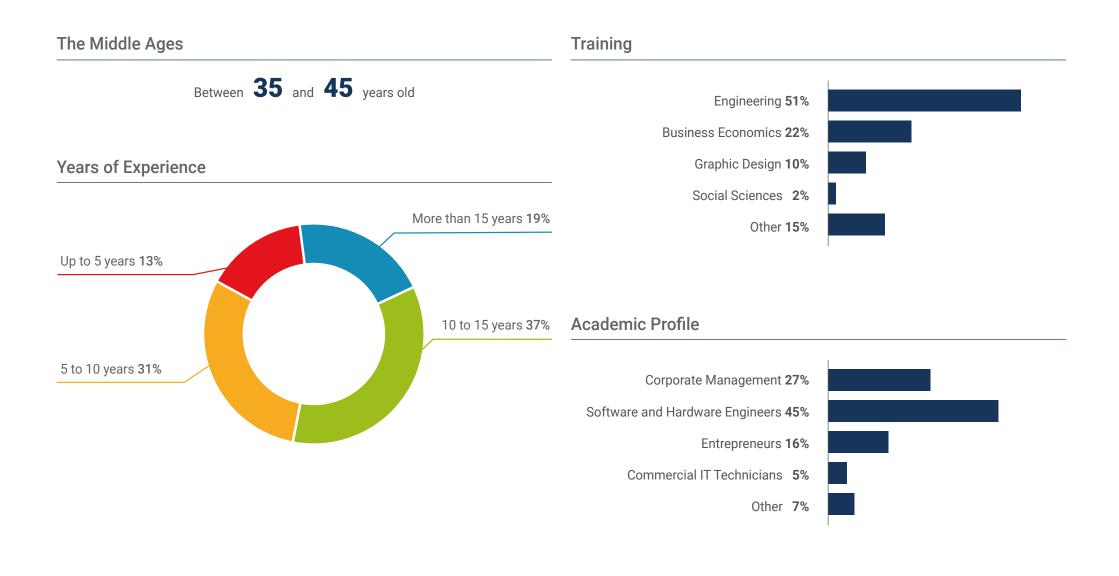
We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



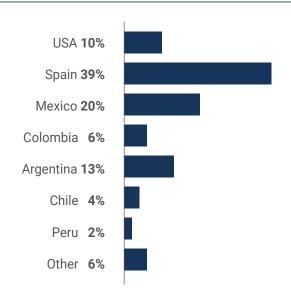
30%







### **Geographical Distribution**





# Miguel Valero Bautista

#### **Technology Project Manager**

"I'd been stuck in my career for a long time, but thanks to the Project and Team Management in Technological Environments program, I was able to start applying for more and more important job offers and take on more responsibilities in my environment. Without a doubt, this program launched my career to another level"





#### Management



#### Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO in Al Shephers GmbH
- CTO at Korporate Technologies
- Director of Design and Development at DocPath Document Solutions
- Computer Engineer from the University of Castilla La Mancha
- Doctorate in Psychology from the University of Castilla La
- PhD in Economics, Business and Finance from the Camilo José Cela University
- Master's Degree in Advanced Information Technologies from the University of Castilla La Mancha
- MBA+E (Master's Degree in Business Administration and Organisational Engineering) from the University of Castilla La Mancha

#### **Professors**

#### Mr. Tato Sánchez, Rafael

- Project Management and CTO at Indra Sistemas
- Head of the Control Center and Traffic Management in the Directorate General for Traffic in Madrid
- Systems Engineer in ENA Tráfico
- Degree in Industrial Electronics and Automation Engineering from the European University of Madrid
- Industrial Technical Engineer in Electricity from the Polytechnic University Madrid
- Master's Degree in Industry 4.0 from the International University of La Rioja

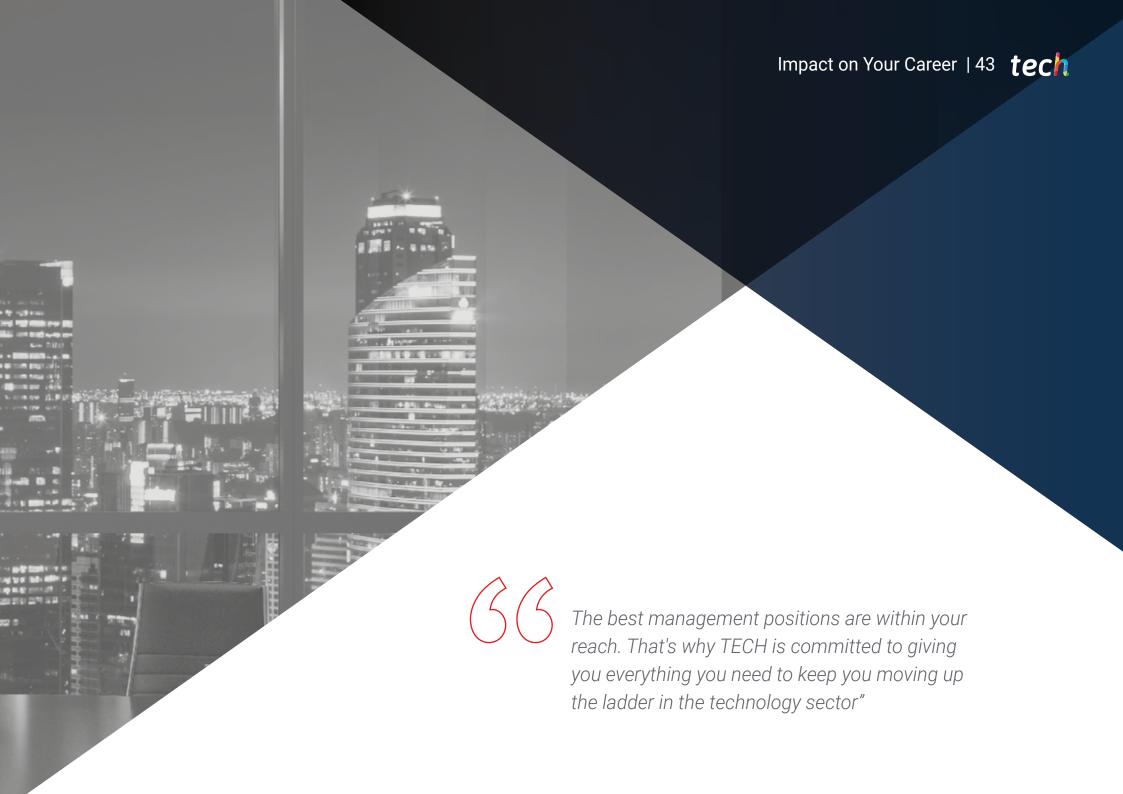
#### Mr. Gómez Esteban, Enrique

- Oracle database administrator at NATO, Alten, ViewNext, Everis and Psa Group (Peugeot)
- Project Manager at Telefónica
- Head of Safety at FNMT
- Technical Advisor at IBM Sterling and IBM Aspera
- ◆ Software Engineer at NCR Corporation
- Computer Expertise in Commercial/Civil, Criminal and Extrajudicial areas in the Community of Madrid
- ◆ Computer Engineer, Polytechnic University of Madrid
- Postgraduate Master's Degree in Computer Security and Communications from the Polytechnic University of Madrid

#### Ms. García La O, Marta

- Management, administration and account management at Think Planning and Development
- Organisation, supervision and mentoring of senior management training courses in Think Planning and Development
- Administrative Accountant, Tabacos Santiago y Zaraiche-Stan Roller
- Marketing Specialist at Versas Consultores
- Diploma in Business Studies from the University of Murcia
- Master's Degree in Sales and Marketing Management from Fundesem Business School





## tech 44 | Impact on Your Career

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

The Postgraduate Diploma in IT Project and Team Management in Technological Environments at TECH is an intensive program that prepares students to face challenges and business decisions in the area of technological management. The main objective is to promote your personal and professional growth, helping you achieve success.

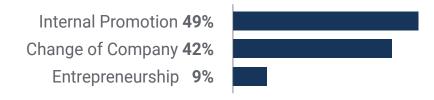
This is the opportunity you were looking for. Don't let your career stagnate and start building your future at the forefront of large-scale IT projects.

The path to the top of the best companies is forged by you. TECH takes you on that path by giving you the best possible tools.

#### When the change occurs



#### Type of change



## Salary increase

This program represents a salary increase of more than **30.68%** for our students.

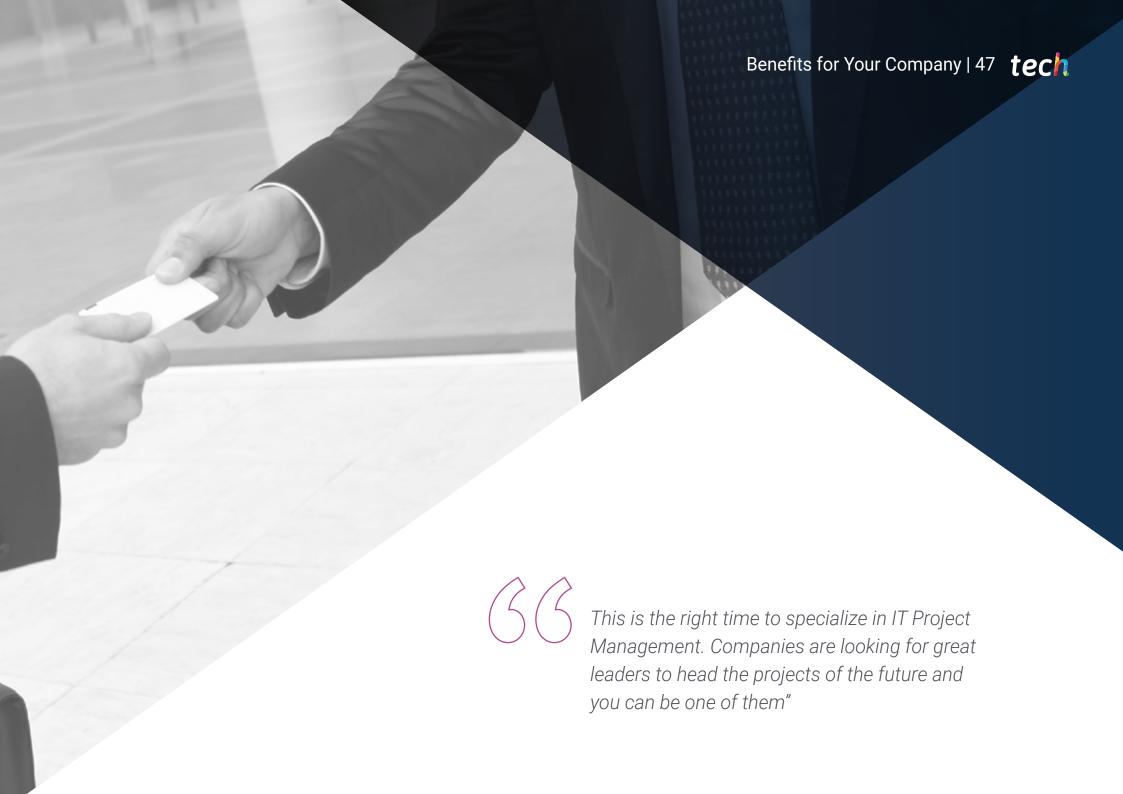
\$23,890

A salary increase of

30.68%

\$30,520





# tech 48 | Benefits for Your Company

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



#### **Intellectual Capital and Talent Growth**

Professional will bring new concepts, strategies and perspectives to the center that will contribute relevant changes in the organization.



# Retaining high-potential executives to avoid talent drain

This program strengthens the link between the organization and managers, and it 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**

Professionals 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 equips students with the skills to take on new challenges and drive the organization forward.







## tech 52 | Certificate

This program will allow you to obtain your **Postgraduate Diploma in IT Project and Team Management in Technological Environments** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in IT Project and Team Management in Technological Environments

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



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



# Postgraduate Diploma

IT Project and Team Management in Technological Environments

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

