

Postgraduate Certificate

Robotics, Drones and Augmented Workers





Postgraduate Certificate Robotics, Drones and Augmented Workers

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Target Group: Engineers, architects and graduates who want to learn and update themselves on the latest technological trends and digitalization processes that will help them lead technological innovation and business transformation. It is also highly recommended for innovation managers who want to create value within their area and organizations, relying on the emerging technologies of Industry 4.0, knowing them and making an intelligent selection and application of them to meet customer expectations.

Website: www.techtute.com/us/school-of-business/postgraduate-certificate/robotics-drones-augmented-workers

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01 Welcome

The application of robotics in industry and society in general, especially of the most radical innovations that have brought about enormous changes in the productive sectors, require professionals to be fully updated and of high quality in order to remain at the forefront of competitiveness. In this sense, the application of technologies to increase the physical and cognitive capabilities of the human being in what is known under the concept of Augmented Workers, represents a field of development necessary to know and study. This program brings together the learning that the professional needs in the area of robotics, drones and augmented reality structured in an intensive and highly effective course.

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

We are waiting for you.



Postgraduate Certificate in Robotics, Drones and Augmented Workers. TECH Technological University



“

Join the development: get up to date on the most interesting aspects for the industrial sector in robotics, drones and augmented reality in a high quality program"

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:



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 groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



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"

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 Postgraduate Certificate in Robotics, Drones and Augmented Reality offers students a complete vision of the multiple capabilities and functionalities that these advances represent in today's industry. This knowledge will allow students to access the advantages of the most interesting and relevant processes in the industrial context in recent times. An intensive learning experience that will enable students to master the main updates in the field, which will allow you to practice your profession with the highest quality and professionalism.



“

Acquire the necessary knowledge to take full advantage of the incursion into the business world of Robotics, Drones and Augmented Reality and start the future in your company, now"

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

The Postgraduate Certificate in Robotics, Drones and Augmented Workers will qualify you for:

01

Entering the world of robotics and automation

02

Choose a robotic platform, prototype and know in detail simulators and robot operating system (ROS)

03

Deepen in the applications of artificial intelligence to robotics oriented to predict behaviors and optimize processes





04

Study robotics concepts and tools, as well as use cases, real examples and integration with other systems and demonstration

05

Analyze the most intelligent robots that will accompany us in the coming years and how humanoid machines will be trained to perform in complex and challenging environments

06

Implementing RaaS Services and Robotics in Enterprises

05

Structure and Content

An interesting program tailored to the professional that is taught in a 100% online format to allow students to choose the time and place that best suits their availability, schedules and interests. With all the developments you need to study and apply to understand and intervene in the use of robotics, drones and augmented reality in industry.

A program that aims to be a unique and stimulating experience that lays the foundation for success as a project manager.

The most complete syllabus.



“

All the contents you need to know and master analyzed and explained in a clear way by the best professionals in this sector"

Syllabus

The Postgraduate Certificate in Robotics, Drones and Augmented Workers of TECH Technological University is an intensive program updated to the current market reality and the new needs in digitization and automation, crisis management and incorporation of new exponential and emerging technologies.

During the course, not only will the student delve into the theoretical study of the possibilities of the Internet of Things, but also real practices with different technologies will be carried out.

Throughout 150 hours of study, students will study a multitude of practical cases through individual work, which will allow them to acquire the necessary skills to successfully develop in their daily practice. It is, therefore, an authentic immersion in real business situations.

This program deals in depth with different areas of the company and is designed for managers to understand project management from a strategic, international and innovative perspective.

A plan designed especially for students, focused on their professional improvement and that prepares to achieve excellence in the field of leadership and business management. A program that understands your needs and those of your company through innovative content based on the latest trends, and supported by the best educational methodology and an exceptional faculty, which will provide you with the skills to solve critical situations in a creative and efficient way.

This is a program that takes 6 weeks and is distributed in 1 module:

Module 1

Robotics, Drones and Augmented Workers



Where, when, and how it is taught

TECH offers you the possibility of taking this program completely online. Throughout the six weeks of training, you will be able to access all the program contents at any time, allowing you to self-manage your study time.

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

Module 1. Robotics, Drones and Augmented Workers

1.1. Robotics

- 1.1.1. Robotics, Societies and Cinema
- 1.1.2. Components and Parts of Robot

1.2. Robotics and Advanced Automation: Simulators, Cobots

- 1.2.1. Transfer of Learning
- 1.2.2. Cobots and Case Uses

1.3. RPA (Robotic Process Automatization)

- 1.3.1. Understanding RPA and its Functioning
- 1.3.2. RPA Platforms, Projects and Roles

1.4. Robot as a Service (RaaS)

- 1.4.1. Challenges and Opportunities for Implementing RaaS Services and Robotics in Enterprises
- 1.4.2. Functioning of a RaaS system

1.5. Drones and Automated Vehicles

- 1.5.1. Components and Drones Operation
- 1.5.2. Uses, Types and Applications of Drones
- 1.5.3. Evolution of Drones and Autonomous Vehicles

1.6. The Impact of 5G

- 1.6.1. Evolution of Communications and Implications
- 1.6.2. Uses of 5G Technology

1.7. Augmented Workers

- 1.7.1. Human-Machine Integration in Industrial Environments
- 1.7.2. Challenges in Worker-Robot Collaboration

1.8. Transparency, Ethics and Traceability

- 1.8.1. Ethical Challenges in Robotics and Artificial Intelligence
- 1.8.2. Monitoring, Transparency and Traceability Methods

1.9. Prototyping, Components and Evolution

- 1.9.1. Prototyping Platforms
- 1.9.2. Phases to Make a Prototype

1.10. Future of Robotics

- 1.10.1. Trends in Robotization
- 1.10.2. New Types of Robots



“

A comprehensive and multidisciplinary training program that will allow you to excel in your career, following the latest developments in the field of digital transformation and industry 4.0”

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.





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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

Our Postgraduate Certificate in Robotics, Drones and Augmented Workers is a program aimed at professionals who want to update their knowledge in the technological area, discover new ways to innovate and advance in their professional career.

This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.





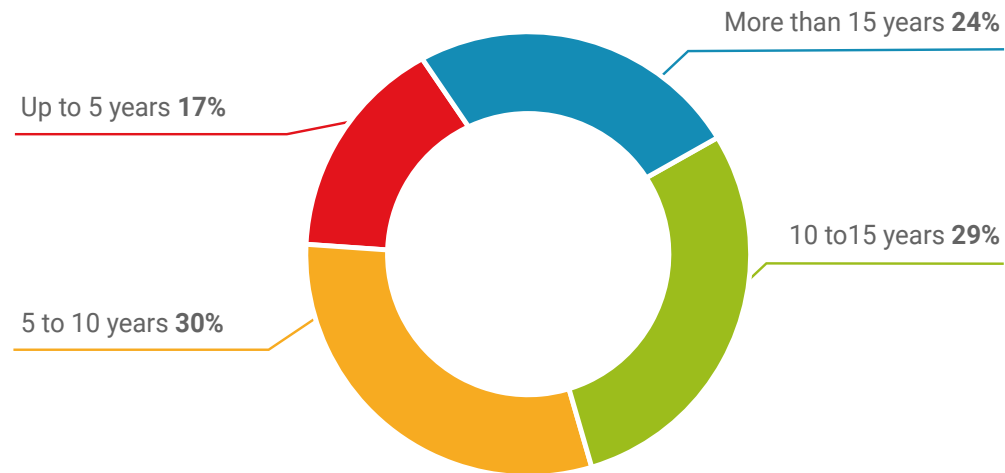
“

A boost of updating that will mean a significant improvement in your CV, in terms of competitiveness in the labor market, and your professional skills in terms of your ability to work"

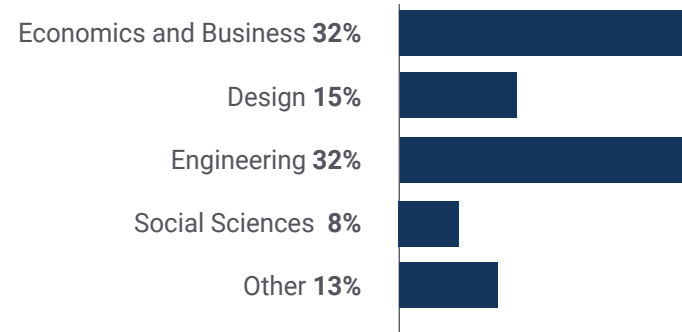
Average Age

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

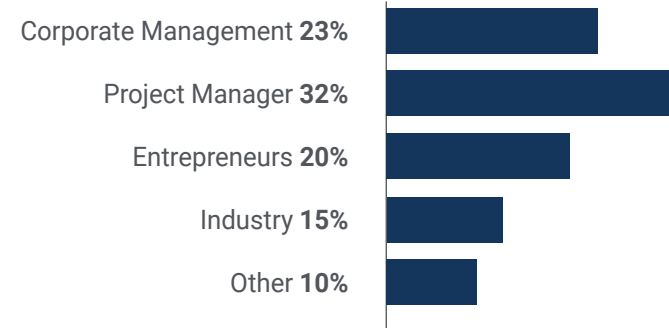
Years of Experience



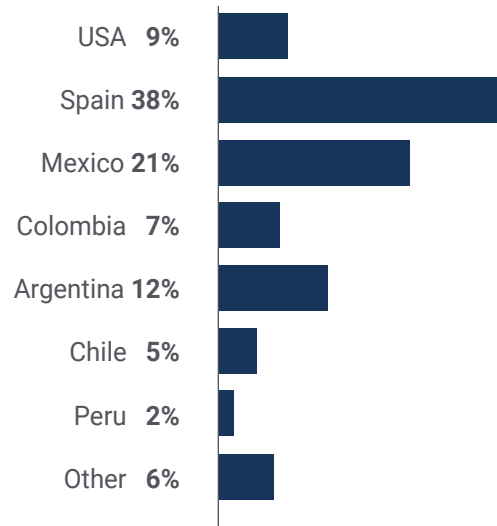
Training



Educational Profile



Geographical Distribution



Mario González Reina

CEO

"This topic completely escaped me and I couldn't see a way to catch up while I was working. Now, with this program, I have gained the mental tools I needed to be able to control these processes more confidently"

08

Course Management

In this exceptional program, the teachers are professionals who have mastered the theoretical and practical aspects of the application of these highly innovative developments in the industrial world, but who are also experts in online teaching. Through their knowledge of this field of work, they will provide students with a direct vision and practical aspects of this intervention. In this way, TECH teachers have compiled the most updated information on this subject to offer it to their students in a faithful and didactic way.



“

This intensive program will turn learning into competencies and will allow you to acquire the broadest and most immediate vision of the ways and processes of application of Robotics, Drones and Augmented Workers”

Management



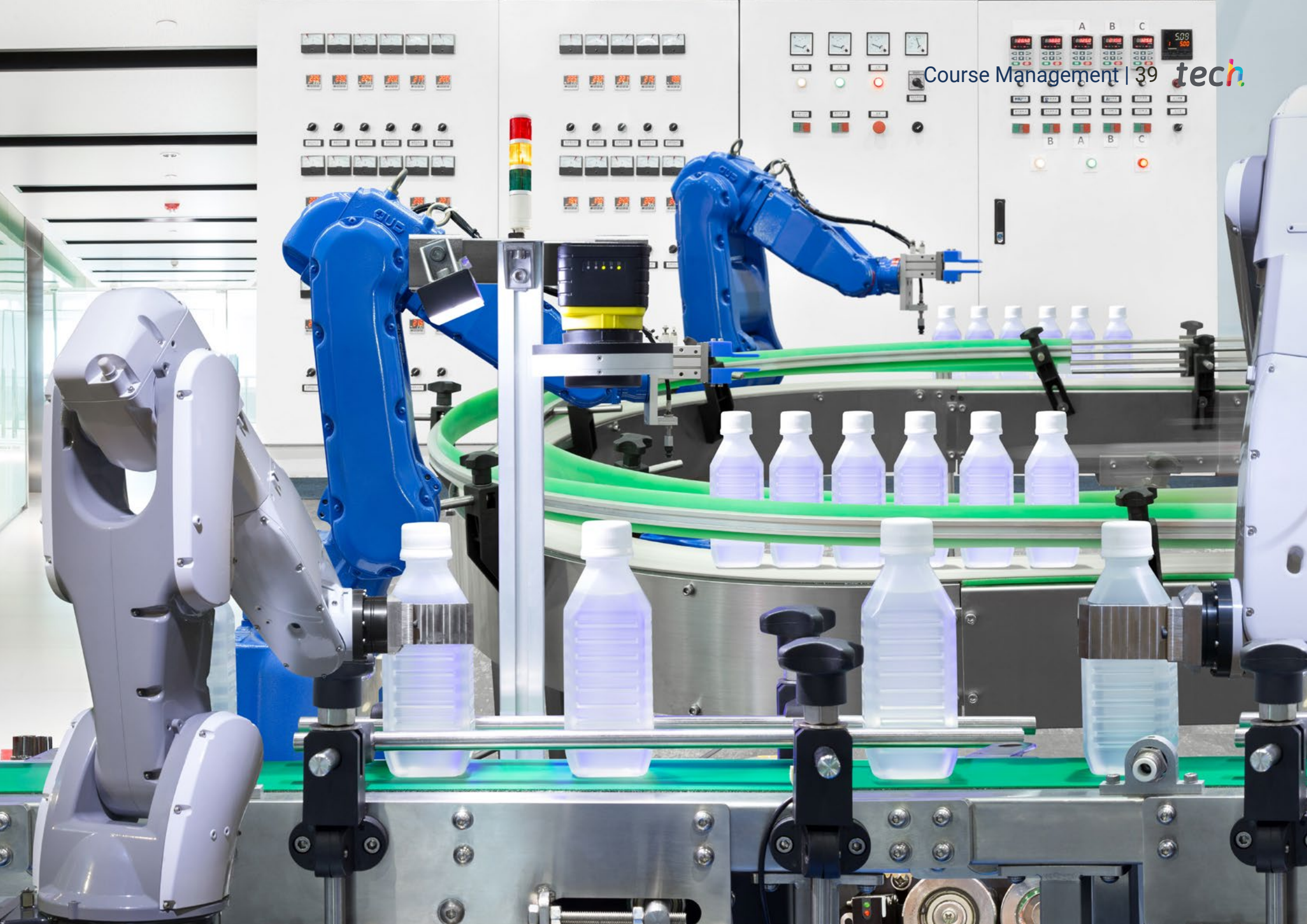
Mr. Segovia Escobar, Pablo

- ♦ Industrial Engineer, Project Management Professional (PMP) por el Program Management Institute
- ♦ Master in Business Administration and Management
- ♦ Postgraduate in Strategic Management Function
- ♦ Sales Manager and Program Manager with extensive experience (more than 12 years) in project management
- ♦ Current commercial manager of the Aftermarket and Industry 4.0 area applied to the support of systems at Indra



Mr. Diezma López, Pedro

- ♦ Entrepreneur, writer, TEDx speaker and expert in emerging and exponential technologies
- ♦ Founder of the technology companies Acuilae (Artificial Intelligence), Ethyka and Zerintia Technologies
- ♦ Wearable "Best Initiative" Award in eHealth 2017 and "Best Technological "Solution" 2018 for occupational safety
- ♦ One of the world's leading experts (Source: Onalytica) in Wearable Technology and Internet of Things



09

Impact on Your Career

TECH-Universidad Technological University is aware that taking a program of these characteristics is a great economic, professional and, of course, personal investment for the student. The ultimate goal of this great effort should be to achieve professional growth. And this is achieved thanks to an academic program that offers the best educational offer of the moment in this sector. A program designed to support students at the educational level, so that they develop the necessary skills to successfully manage in this field.





“

*A new way to grow, with a high quality methodology
in a unique learning process in its sector”*

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

The Postgraduate Certificate in Robotics, Drones and Augmented Workers from TECH Technological University is an intensive and highly valuable program aimed at improving students' job skills in an area of broad competence. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

Those who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH.

Generating Positive Change

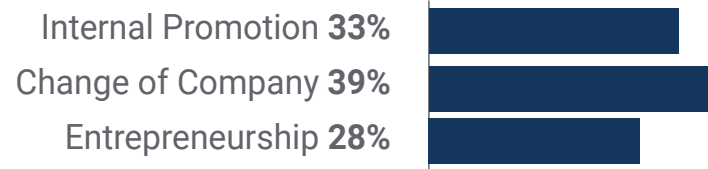
A program of high academic standing to lead your career to success.

This Postgraduate Certificate will enable students to acquire the necessary competitiveness to make a radical change in their careers.

Time of change



Type of change



Salary increase

This program represents a salary increase of more than **25.22%** for our students.



10

Benefits for Your Company

The Postgraduate Certificate in Robotics, Drones and Augmented Workers contributes to elevate the organization's talent to its maximum potential through the specialization of high-level leaders. A program that adapts to students so they acquire the necessary tools that, later on, they will be able to apply in their daily practice, achieving great benefits for their company. In addition, participating in this academic itinerary is a unique opportunity to access a powerful network of contacts in which to find future professional partners, clients or suppliers.



“

It provides your company with a global vision of project management and offers new perspectives that will lead your business to success"

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 Robotics, Drones and Augmented Workers 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 Robotics, Drones and Augmented Workers** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Certificate in Robotics, Drones and Augmented Workers**

Official N° of Hours: **150 h.**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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- » Dedication: 16h/week
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- » Exams: online

Postgraduate Certificate Robotics, Drones and Augmented Workers

