

# Postgraduate Certificate Digital Health Management



## Postgraduate Certificate Digital Health Management

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Target Group: Graduates, Postgraduate Certificates and University Graduates who have previously completed any of the programs in the fields of Business, Economics, Medicine, Pharmaceuticals, Biology, Chemistry

Website: [www.techtute.com/pk/school-of-business/postgraduate-certificate/digital-health-management](http://www.techtute.com/pk/school-of-business/postgraduate-certificate/digital-health-management)

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# 01 Welcome

Technological innovation in the healthcare sector has generated significant advances that combine healthcare management with the implementation of technological solutions. These updates have the potential to optimize processes, facilitate decision making and improve the quality of patient care. For this reason, it is important for the business specialist to be up-to-date on the latest technological trends that can simplify processes in the medical field. In this context, TECH has designed a 100% online program that will allow students to combine their daily activities with learning activities, since it will not be subject to fixed schedules.



Postgraduate Diploma in Benefits of the Family Office  
TECH Technological University



“

*You will delve into hospital information systems and how to implement them effectively to optimize management in the health sector”*

02

# Why Study at TECH?

TECH is the world's largest 100% online school of business.

It is an elite school of business, with a model based on the highest academic standards. A world-class centre for intensive managerial skills education.



“

*TECH is a university at the forefront of technology, and puts all its resources at the student's disposal which helps 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

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TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



### Academic Excellence

---

TECH offers students the best online learning methodology. The university combines the Relearning method (postgraduate learning methodology with the best international valuation) with the Case Study. Tradition and vanguard in a difficult balance, and in the context of the most demanding educational itinerary.



### Economy of Scale

---

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



### 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 main objective of this program is to provide students with the necessary knowledge and foundations to understand and take advantage of the opportunities that technology offers to improve the efficiency and quality of health services. In this sense, the business professional will be programmed to identify and assess the most appropriate technological solutions in the healthcare field.





“

*You will learn about telemedicine and digital health, and discover how remote medical consultations and mobile apps are transforming the way we care for ourselves”*



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

The **Postgraduate Certificate in Digital Health Management** will enable students to:

01

Acquire knowledge about the history of strategic Management

04

Optimize working capital management

02

Categorize the different definitions over time

03

Assess financial efficiency



05

Understand the different types of health care systems, such as public, private/private insurance, and private health care

06

Assess unmet patient needs and chronicity management

07

Understand what Market Access is and how the need for this function arises in the pharmaceutical industry

08

Know the structure, organization and functions of the National Health System



09

Delve into the steps involved in planning the market access of a new drug

10

Review the points to be analyzed prior to the development of the access plan to understand the environment and competitors

11

Know the capabilities and ethics of the Coach

12

Understand the essence of coaching and its focus on learning



13

Acquire basic knowledge of the fundamental concepts of leadership and their application in the pharmaceutical industry

14

Understand and categorize leadership theories, exploring the leadership process and the different existing styles and models

15

Achieve an effective tool to achieve results

16

Define unique and differentiated value propositions



# 05

## Structure and Content

The Postgraduate Certificate stands out for its syllabus that will address highly relevant topics in the field of medicine and pharmaceuticals. The main focus will be on patient-centered medicine and patient empowerment. Similarly, the controversy surrounding the cost of health services will be addressed. In addition, both current and future views of health care will be discussed in relation to the age pyramid and how to maintain costs in an aging population will be examined. Furthermore, the importance of understanding different types of patients and effective, conflict-free communication are emphasized as key aspects.



“

*You will have at your disposal specialized readings and a whole series of multimedia resources that will immerse you in the field of artificial intelligence and machine learning applied to healthcare"*

## Syllabus

In order to offer students quality learning, TECH has developed a Postgraduate Certificate in Digital Health Management. Through it, the business professional will be able to examine concepts such as conscientious objection and science objection, and tools are provided to manage the pressure of care in a rational manner. Furthermore, the requirements for senior management positions in the healthcare field will be analyzed and the shortage of leaders in this field will be discussed.

Likewise, issues related to the justification of the cost of health services, equity in spending and the valuation of specialists will be addressed. Finally, innovation will be promoted as a means of expanding the portfolio of services and improving medical care in general.

In order to guarantee a unique experience, a program has been designed with a 100% online format. This will offer students a number of significant advantages. First, they will have access to a wide range of multimedia resources, including specialized texts and interactive summaries, available in an exclusive virtual library created especially for them. In addition, the Relearning method will be implemented, which will ensure an enriching and effective learning experience.

In addition, the virtual modality will provide participants with exceptional flexibility, as they will be able to access the content at any time and from anywhere. All that is required is a device with an Internet connection, which makes it possible to adapt to each student's schedule and individual circumstances.

This Postgraduate Certificate takes place over 6 weeks and it consists of 1 module:

### Module 1.

Digital Health Management: Technological Innovation in the Health Sector





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

TECH offers the possibility of developing this Postgraduate Certificate in Digital Health Management completely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

**Module 1. Digital Health Management: Technological Innovation in the Health Sector**

**1.1. Hospital Information Systems**

- 1.1.1. Implementation
- 1.1.2. Hospital Information Systems Management
- 1.1.3. Electronic Medical Records
- 1.1.4. Information Systems Interoperability

**1.2. Telemedicine and Digital Health**

- 1.2.1. Remote Medical Consultations
- 1.2.2. Telemonitoring Platforms
- 1.2.3. Patient Follow-Up
- 1.2.4. Mobile Health and Wellness Applications

**1.3. Big Data and Data Analysis in Healthcare**

- 1.3.1. Management and Analysis of Large Volumes of Healthcare Data
- 1.3.2. Use of Predictive Analytics for Decision Making
- 1.3.3. Privacy
- 1.3.4. Health Data Security

**1.4. Artificial Intelligence and Machine Learning in Healthcare**

- 1.4.1. Artificial Intelligence Applications in Medical Diagnostics
- 1.4.2. Machine Learning Algorithms for Pattern Detection
- 1.4.3. Chatbots
- 1.4.4. Virtual Assistants in Medical Care

**1.5. Internet of Things (IoT) in Healthcare**

- 1.5.1. Connected Medical Devices and Remote Monitoring
- 1.5.2. Intelligent Hospital Infrastructures
- 1.5.3. IoT Applications in Inventory Management
- 1.5.4. Supplies

**1.6. Cybersecurity in Healthcare**

- 1.6.1. Health Data Protection and Regulatory Compliance
- 1.6.2. Prevention of Cyber Attacks
- 1.6.3. Ransomware
- 1.6.4. Security Audits and Incident Management

**1.7. Virtual Reality (RV) and Augmented Reality(AR) in Medicine**

- 1.7.1. Medical Training Using VR Simulators
- 1.7.2. AR Applications in Assisted Surgery
- 1.7.3. Surgical Guides
- 1.7.4. VR Therapy and Rehabilitation

**1.8. Medical Robotics**

- 1.8.1. Use of Surgical Robots in Medical Procedures
- 1.8.2. Task Automation in Hospitals and Laboratories
- 1.8.3. Prosthesis
- 1.8.4. Robotic Assistance in Rehabilitation

**1.9. Medical Image Analysis**

- 1.9.1. Medical Image Processing and Computational Analysis
- 1.9.2. Computer-Aided Image Diagnosis
- 1.9.3. Real-Time Medical Imaging
- 1.9.4. 3D

**1.10. Blockchain in Healthcare**

- 1.10.1. Security and Traceability of Health Data with Blockchain
- 1.10.2. Exchange of Medical Information between Institutions
- 1.10.3. Management of Informed Consents
- 1.10.4. Privacy



“

*You will explore how connected medical devices and intelligent inventory management are transforming healthcare, thanks to this Postgraduate Certificate only offered by TECH”*



# 06

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as **the New England Journal of Medicine** have considered it to be one of the most effective.





“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*



## TECH Business School uses the Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*This program prepares you to face business challenges in uncertain environments and achieve business success.*



*Our program prepares you to face new challenges in uncertain environments and achieve success in your career.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.

“

*You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments”*

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.



## Relearning Methodology

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

We enhance the Case Study with the best 100% online teaching method: Relearning.

*Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### Management Skills Exercises

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best senior management specialists in the world.



### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



### Testing & Retesting

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



07

# Our Students' Profiles

The Postgraduate Certificate is aimed at Graduates, Postgraduate Certificates and University Graduates who have previously completed any of the following programs in the fields of Business, Economics, Medicine, Pharmaceuticals, Biology, Chemistry.

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

The Postgraduate Certificate may also be taken by professionals who, being university graduates in any area, have two years of work experience in the medical or pharmaceutical field.





“

*With the Relearning method you will learn complex concepts with less effort and more performance"*

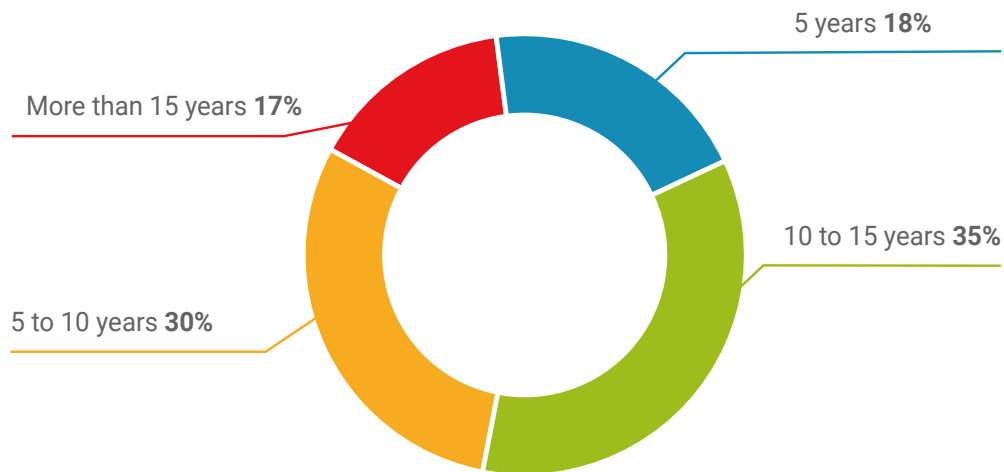
### Average Age

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

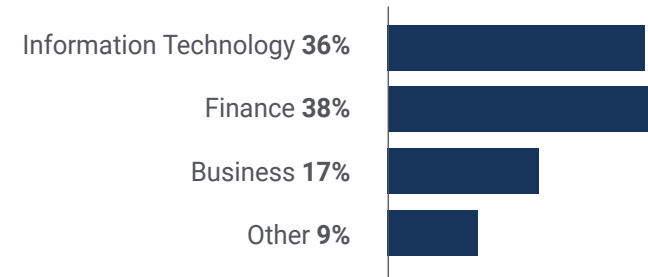
### Years of Experience

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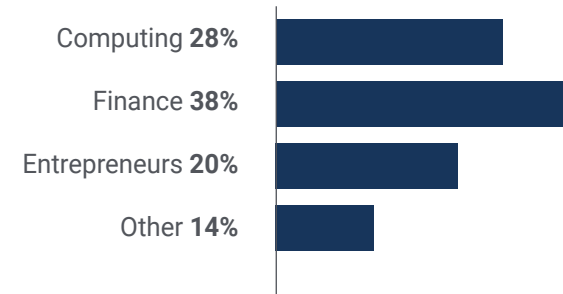
### Training

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### Academic Profile

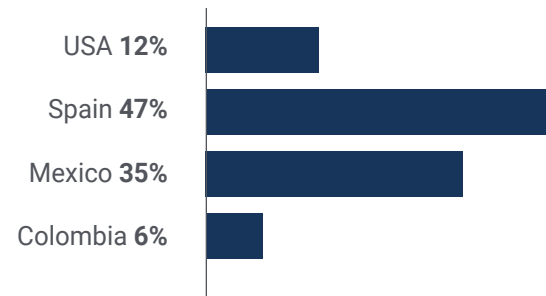
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## Geographical Distribution

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## Marcela Arias

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Operations analyst in a medical institute

*"Today, as a graduate, I feel prepared and confident to face the challenges of my profession. Not only did I acquire solid theoretical knowledge, but I also developed critical thinking and problem solving skills. I am grateful for the well-rounded education I received and for the opportunities this university provided me"*

08

# Course Management

This program is distinguished by its high quality teachers who teach from an innovative educational perspective. The professors are recognized experts in the fields of Pharmaceutical Industry, Medicine and Business, and have extensive professional backgrounds. This will ensure that students gain first-hand knowledge from leading professionals in their respective fields.



“

*You will become an expert in healthcare data analysis and discover how Big Data can improve decision making in the medical sector"*

## Management



### Mr. Cardenal Otero, César

- ♦ Pharmabiomedical Executive at Amgen
- ♦ Author of the book " Personal Brand Communication through Social Networks by Professionals in the Health Sector"
- ♦ Degree in Marketing from *Prifysgol Cymru University* in Wales
- ♦ Distinguished grade in the Inspiring Leadership through Emotional Intelligence course at Case Western Reserve University
- ♦ Postgraduate Degree in Management and Health of the Pharmaceutical Industry of the European University
- ♦ Master's Degree in SME Administration from the Polytechnic School of Management
- ♦ Specialization in Social Media Marketing from Northwestern University
- ♦ Postgraduate Diploma in International Trade and Transport, University of Cantabria, Spain
- ♦ Postgraduate Certificate in Business Administration from the University of Cantabria

## Professors

### Ms. Armesto Alonso, Susana

- ♦ Physician in the University Hospital Marqués de Valdecilla
- ♦ President of the Astur-Cantabrian-Castellano-Leonese Society of Dermatology
- ♦ Co-author of the book Economic Assessment of Hospital Hyperbaric Medicine
- ♦ Degree in Medicine and Surgery from the University of Salamanca
- ♦ PhD in Dermatology from the University of Oviedo
- ♦ Master's Degree in Health Management
- ♦ Member of the AEDV Board of Directors





09

# Impact on Your Career

Upon graduating from this Postgraduate Certificate, the professionals will notice an important change in their professional careers. In this sense, the expert will be able to play a fundamental role in the transformation of healthcare services through the use of digital technologies. In this way, it will optimize processes, improve decision-making, personalize medical care, facilitate communication and collaboration, and promote innovation in healthcare delivery.





“

*You will explore virtual reality and augmented reality, and how their use has revolutionized all areas of medicine, thanks to this program"*

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

TECH's Postgraduate Certificate in Digital Healthcare Management is an intensive program that prepares you to face business challenges and decisions in the medical and pharmaceutical fields. The main objective is to promote your personal and professional growth. Helping you achieve success.

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

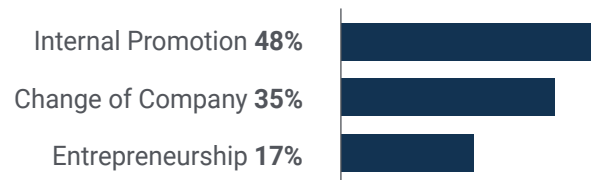
*You will make use of robotics in medicine and see how robots are transforming medical procedures and rehabilitation care.*

*You will learn about computer-aided image diagnosis and 3D visualization.*

#### When the change occurs



#### Type of change



## Salary increase

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This program represents a salary increase of more than **27,19%** for our students.



10

# Benefits for Your Company

The graduates of this program will provide great benefits to the company of which they are a member. By taking into account the knowledge acquired, the professional will optimize processes, improve decision making, foster innovation, ensure regulatory compliance and provide a better patient experience. These benefits can lead to greater operational efficiency, improved quality of care and a competitive advantage in the healthcare sector.





“

*You will explore the potential of blockchain in the healthcare sector and discover how this technology can ensure the security and traceability of medical data”*

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

01

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

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 Postgraduate Certificate will equip your professionals with the skills to take on new challenges and therefore drive the organization forward.

11

# Certificate

The Postgraduate Certificate in Digital Health Management 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 Digital Health Management** contains the most complete and up-to-date program on the market.

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

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

Title: **Postgraduate Certificate in Digital Health Management**

Official N° of Hours: **150 h.**



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



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