

# Postgraduate Certificate

Generation of Medical  
Research Projects





## Postgraduate Certificate Generation of Medical Research Projects

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/pk/dentistry/postgraduate-certificate/generation-medical-research-projects](http://www.techtute.com/pk/dentistry/postgraduate-certificate/generation-medical-research-projects)

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# 01

# Introduction

The generation of dental research projects is a critical process that requires careful planning, as well as a solid understanding of the objectives pursued and the methodology necessary to achieve them. For this reason, the dental professional must master the necessary tools to develop them and not fail in the attempt. Therefore, this program provides you with an opportunity to update your knowledge by analyzing the key steps in the generation of your projects, establishing the appropriate specific equipment according to the research or analyzing the essential characteristics in the writing. In this way, you will be able to masterfully determine the feasibility of the project in a convenient online format.



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*This is the Postgraduate Certificate you are looking for to generate your research projects in an efficient way that enhances the achievement of the objectives set"*

When launching a research project, it is important to maintain close supervision and ensure that all established protocols are being followed. Similarly, the researcher must be prepared to make adjustments if unforeseen challenges arise. In addition, the design of the research objectives plays a crucial role, as it will determine the appropriate methodology to achieve them. This may include the selection of a group of patients or subjects, the creation of intervention and follow-up protocols or the selection of outcome measures to assess the success of the intervention.

Undoubtedly, there are many factors that mark an adequate generation of the research project. Failure in any of them means deviating from the path to achieve the objectives or jeopardize the viability of the project, so it is imperative to update the dentist in this demanding subject. This Postgraduate Certificate is the tool that researchers are looking for to get their projects on the right track by means of an exhaustive analysis of the key steps. Some of them are the presentation of background and preliminary data, the definition of hypotheses, objectives and types of sample or the generation of the budget.

With this very complete preparation, dental professionals will have everything they need to carry out their research work with guarantees from the world's largest online university. They will only need to have a device with an Internet connection, which will become the passport that will give them access to an extensive digital catalog of resources on the Generation of Medical Research Projects in the Virtual Campus.

This **Postgraduate Certificate in Generation of Medical Research Projects** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Generation of Medical Research Projects
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*You will excel in the generation of your projects by establishing the most appropriate scientific methodology according to the research"*

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*150 hours of fully up to date educational materials that you can consult on your PC or Tablet to define the general structure of a project"*

*You will become a reference in making delicate adjustments between the needs of your project and the reality of the call for funding.*

*The perfect opportunity to establish exclusion or inclusion criteria for projects with human samples.*

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program's design focuses on Problem-Based Learning, through which the professional must try to solve the different professional practice situations that arise during the academic program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

With regard to the design of this Postgraduate Certificate, TECH has established a series of objectives that revolve around obtaining a high level of preparation through innovative educational tools that will allow the dental professional to efficiently generate research projects. To do this, you will enjoy an educational experience with a worked theoretical-practical balance that is kept in line with the latest advances in dental research.





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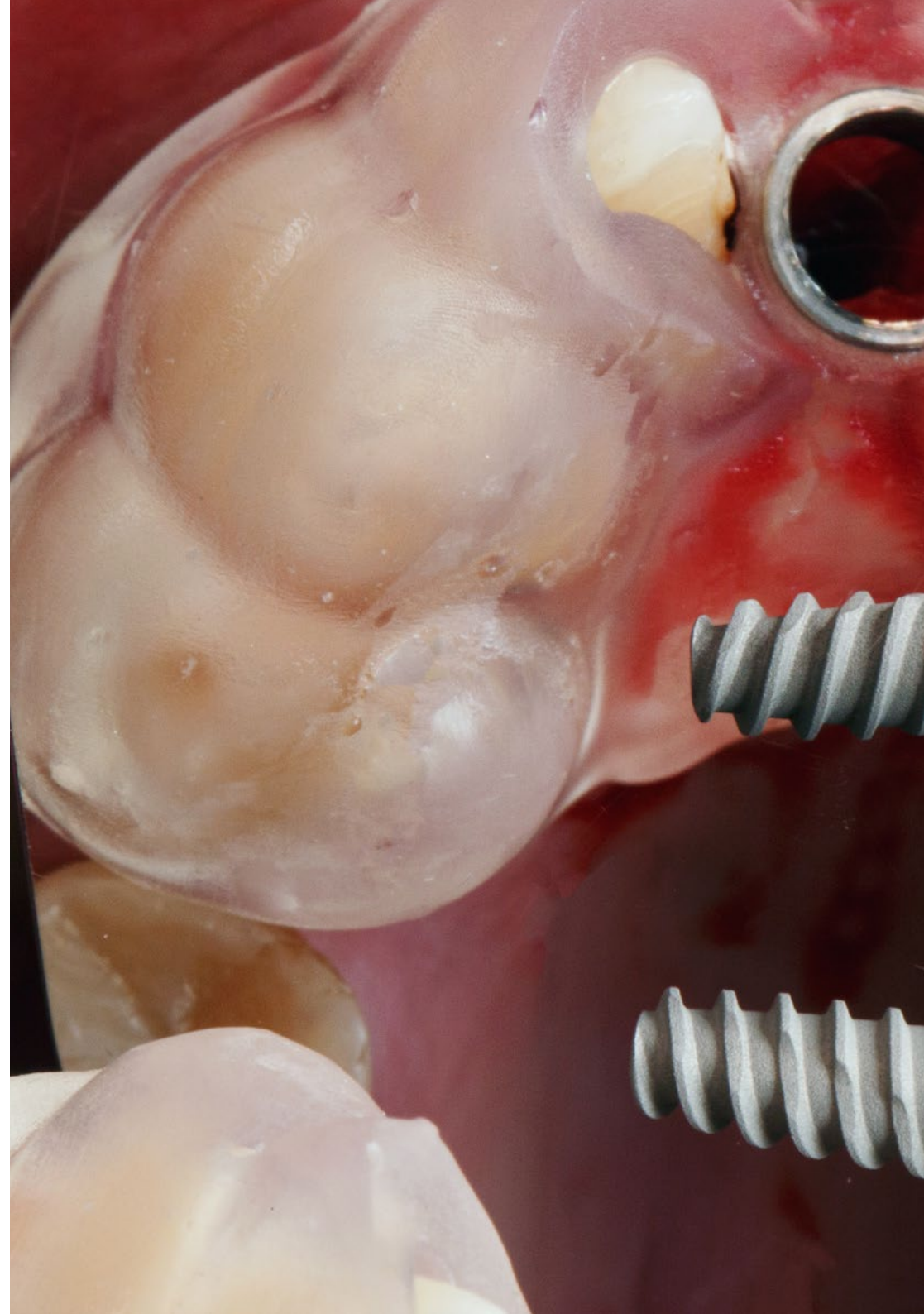
*Reach the objectives of the program to master each and every one of the essential milestones that will allow you to master with solvency the writing of a project"*



## General Objectives

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- Understand the appropriate approach to a question or problem to be solved
- Assess the state of the art of the problem through literature search
- Assess the feasibility of the potential project
- Study the drafting of a project in accordance with the different calls for proposals
- Examine the search for funding
- Master the necessary data analysis tools
- Writing scientific articles (*papers*) according to the target magazines
- Generate *posters* relevant to the units covered
- Know the tools for dissemination to the non-specialized public
- Delve into data protection
- Understand the transfer of knowledge generated to industry or the clinic
- Examine the current use of artificial intelligence and massive data analysis
- Study examples of successful projects





## Specific Objectives

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- Learn how to assess the feasibility of the potential project
- Delve into the essential milestones for writing a research project
- Delve into the criteria for exclusion/inclusion in projects
- Learn how to set up the specific team for each project

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*Highly comprehensive training that will help you determine which specific equipment is right for each project”*

# 03

## Course Management

Always with the aim of offering an elite education for all its students, TECH has made a firm commitment to this program by incorporating a teaching team of real referents in the Generation of Medical Research Projects. In fact, this faculty has extensive experience in Biomedical Research as part of large hospital institutions. In addition, the professors have made significant contributions on Cancer, Pharmacology or infectious diseases published in high impact scientific journals.



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*You will have at your disposal experts in Biomedical Research to whom you will be able to ask any questions"*

## Management



### Dr. López-Collazo, Eduardo

- ♦ Scientific Deputy Director in the Institute for Health Research the Health Research Institute of La Paz University Hospital
- ♦ Head of the Department of Immune Response and Infectious Diseases at IdiPAZ
- ♦ Head of the Department of Immune Response, Tumors and Immunology at IdiPAZ
- ♦ President of the IdiPAZ Research Commission
- ♦ Sponsor of the External Scientific Committee of the Murcian Institute of Health Research
- ♦ Member of the Scientific Commission of FIDE
- ♦ Editor of the international scientific journal *Mediators of Inflammation*
- ♦ Editor of the international scientific journal *Frontiers of Immunology*
- ♦ Coordinator of IdiPAZ Platforms
- ♦ Coordinator of Health Research Funds in the areas of Cancer, Infectious Diseases and HIV
- ♦ PhD in Nuclear Physics, University of La Habana
- ♦ Doctorate in Pharmacy from the Complutense University of Madrid



## Professors

### Dr. Avendaño Ortiz, José

- ◆ Sara Borrell Researcher Foundation for Biomedical Research of the Ramón y Cajal University Hospital (FIBioHRC/IRyCIS)
- ◆ Researcher Foundation for Biomedical Research of La Paz University Hospital (FIBHULP/ IdiPAZ)
- ◆ Researcher HM Hospitals Foundation (FIHM)
- ◆ Graduate in Biomedical Sciences from the University of Lleida
- ◆ Master's Degree in pharmacological research from the Autonomous University of Madrid
- ◆ PhD in Pharmacology and Physiology from the Autonomous University of Madrid

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

# 04

# Structure and Content

The syllabus has been designed to meet the current needs of dental professionals, who require the most advanced tools to ensure the viability of their research. For this reason, TECH has prepared the most comprehensive approach to Generation of Medical Research Projects, which offers dynamic study resources presented in the form of interactive summaries, case studies, videos, master classes and much more.







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*A syllabus that enhances the student's educational experience in Generation of Medical Research Project through Relearning”*

## Module 1. Generation of Research Projects

- 1.1. General Structure of a Project
- 1.2. Presentation of Background and Preliminary Data
- 1.3. Definition of the Hypothesis
- 1.4. Definition of General and Specific Objectives
- 1.5. Definition of the Type of Sample, Number and Variables to be Measured
- 1.6. Establishment of the Scientific Methodology
- 1.7. Exclusion/Inclusion Criteria in Projects with Human Samples
- 1.8. Establishment of the Specific Team: Balance and Expertise
- 1.9. Ethical aspects and Expectations: an Important Element that we Forget
- 1.10. Budget Generation: a fine Tuning between the Needs and the Reality of the Call





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*The presentation of background and preliminary data is included in this agenda to more accurately contextualize your research”*

# 05

# 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.





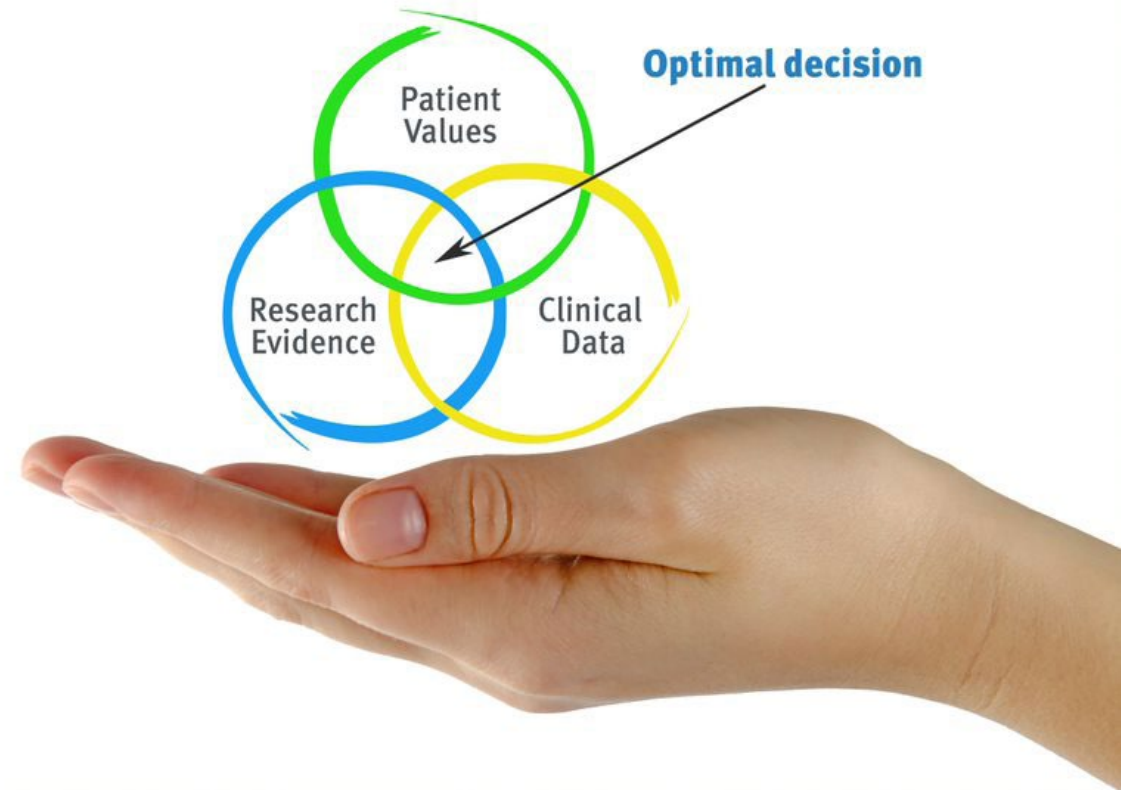
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the dentist's professional practice.

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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Dentists who follow this method not only grasp concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*The student will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*





At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 115,000 dentists with unprecedented success, in all specialties regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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

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.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



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.



### Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



### Interactive Summaries

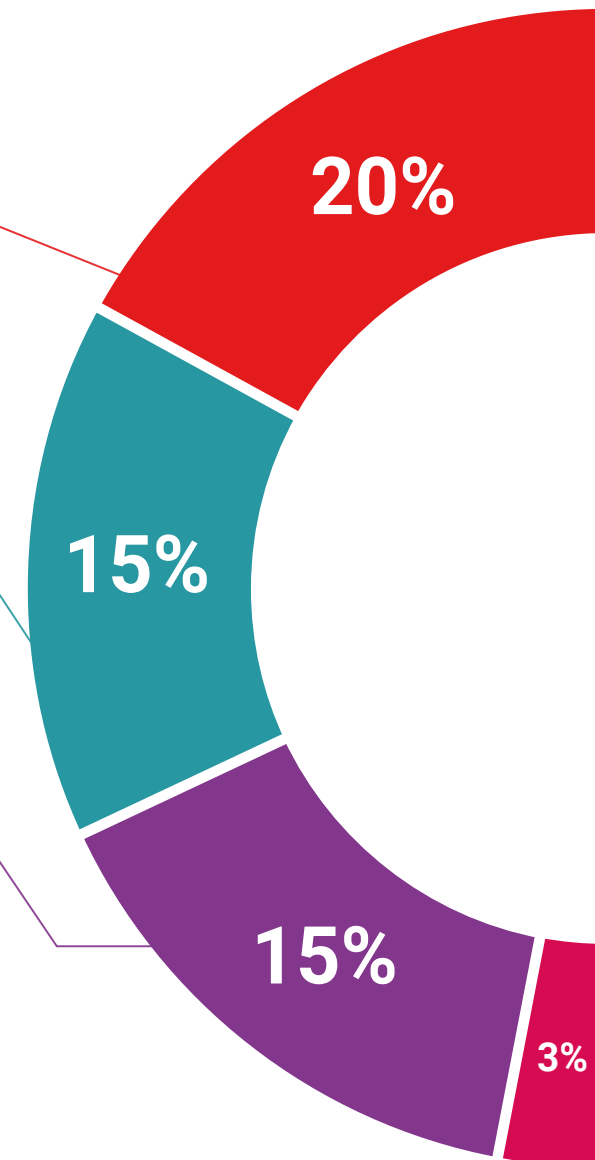
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

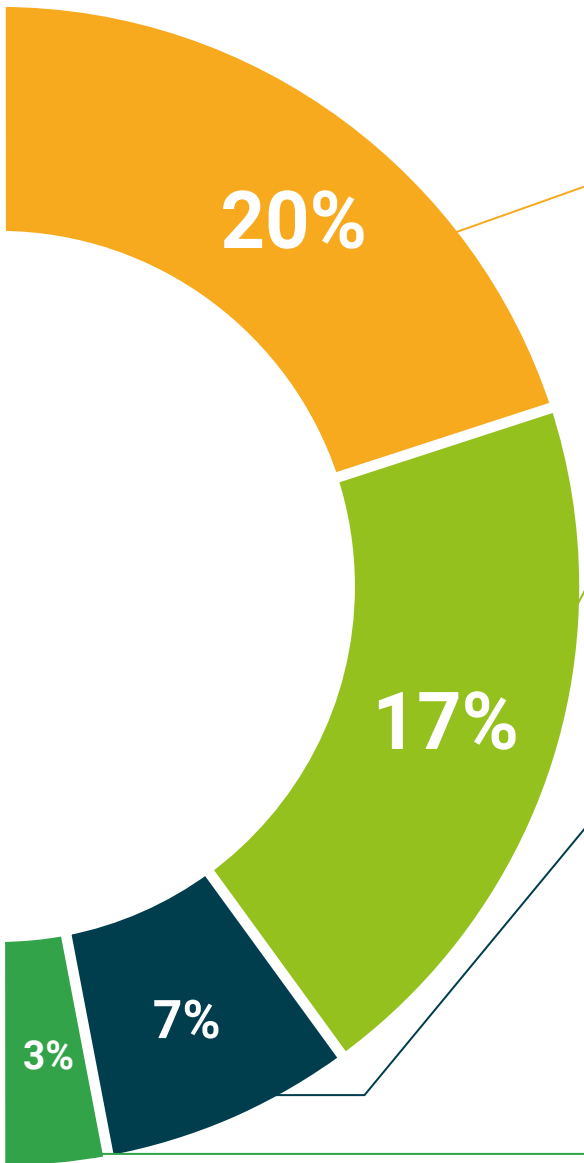
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### 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.



#### 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.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Certificate in Generation of Medical Research Projects guarantees students, in addition to the most rigorous and up-to-date education, access to a certificate issued by TECH Technological University.





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*Successfully complete this program  
and receive your university qualification  
without having to travel or fill out  
laborious paperwork"*

This **Postgraduate Certificate in Generation of Medical Research Projects** contains the most complete and up-to-date scientific 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 Generation of Medical Research Projects**

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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development lang  
virtual classroom



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