

# Postgraduate Certificate

## Medical Research Project Generation



## Postgraduate Certificate Medical Research Project Generation

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/medical-research-project-generation](http://www.techtitute.com/us/medicine/postgraduate-certificate/medical-research-project-generation)

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# 01

# Introduction

For the most part, the viability of a research process will depend on the scientific method applied. In the field of health, biomedical research has made it possible to increase the understanding of diseases and to diagnose them early in order to offer more effective treatments and early rehabilitation. This is an improvement in patient welfare that is directly related to research and whose success is associated with sequential steps in clinical trials. This not only offers greater certainty to the results, but will generate valid conclusions that reinforce the hypothesis of the findings. Therefore, it is essential that professionals are up to date with the resources applicable to the study and TECH has developed a 100% online program with which they can delve into the scientific methodology to perfection.



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*This program will allow you to improve your skills in the generation of Medical Research projects and increase your expectations about your studies in only 6 weeks”*

When developing a research project, your background is key. Not only the final result should be taken into account, since this will be delimited by the general structure of the study, the scientific methodology applied, as well as the generation of the hypotheses and their budget. In this way, in addition to achieving a much more efficient work, time, energy and resources will be controlled. Anticipation is another fundamental point to minimize risks and avoid obstacles in the process, since all of this leads to the achievement of the study's objectives.

For this reason, TECH has developed this Postgraduate Certificate in Medical Research Project Generation, in order to provide medical graduates and other interested health professionals with an update on the presentation of background and preliminary data of a scientific research. This is an exhaustive and rigorous program that delves in a multidisciplinary way into the definition of the type of sample, number and variables to be measured in the study, focusing on the latest tools associated with data and the new technologies recommended for each case.

To achieve this, students will have 150 hours of theoretical, practical and additional content in different audiovisual formats. Dynamic learning, designed by experts in Medical Research and presented in a convenient 100% online format. Thanks to this, the professional will have the possibility of accessing the Online Campus contents from any device with an Internet connection and whenever they wish. It is therefore a unique opportunity for specialists who wish to deepen their understanding of the structural issues of research and contribute to digital education while developing other areas of their lives, such as work.

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

- ◆ Development of case studies presented by experts in Medical Research
- ◆ 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 work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Would you like to go deeper in defining the hypothesis of your own research? With this program you will be able to achieve this in a simple and accessible way thanks to its 100% online modality"*

“

*A Postgraduate Certificate designed with the objective of updating your knowledge in relation to the generation of research projects at a local and international level”*

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

Its 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 an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*A perfect academic option to update your skills in budget generation according to the needs and reality of the call.*

*TECH gives you the possibility of accessing the 150 hours of the program through the Online Campus from anywhere and with a schedule totally adapted to your availability.*



# 02 Objectives

TECH has developed this Postgraduate Certificate program with the objective of updating medical graduates and other health science professionals interested in the efficiency of research projects. To this end, students will be provided with the most innovative academic tools, as well as with the most innovative and austere information in this area in order to promote much more efficient studies and to minimize their expenses in relation to their results.





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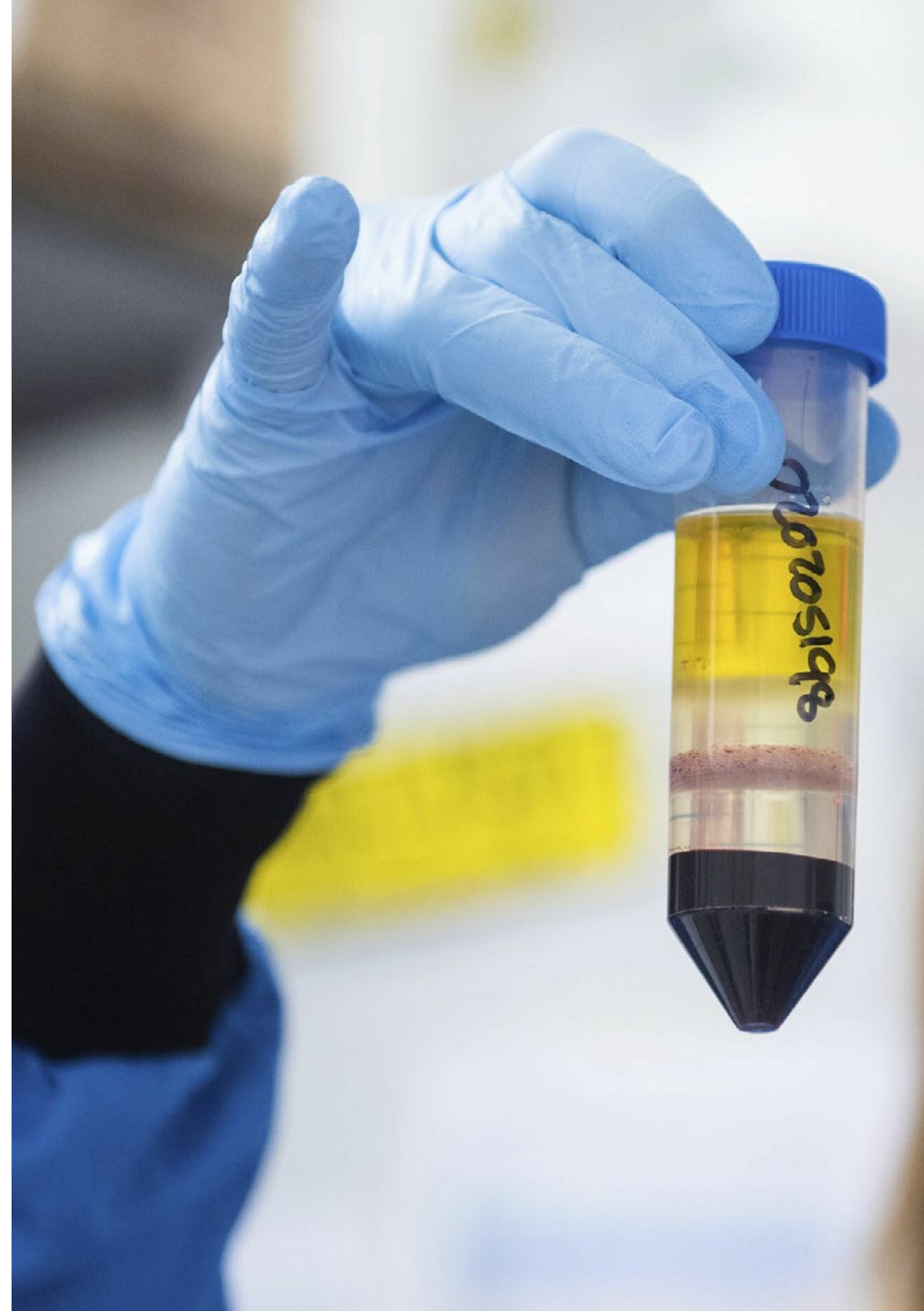
*Meet all your objectives in a demanding way and get the most out of this Postgraduate Certificate thanks to all the content that TECH will put at your disposal"*



## 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
- ◆ Write scientific articles (papers) for the daily magazines
- ◆ Generate posters relevant to the topics addressed
- ◆ 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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*Do you want to learn how to set up specific teams according to the research project and be able to structure it effectively? With this program you will achieve all your goals in less than 6 weeks”*



# 03

## Course Management

Taking into account the scientific evidence on pedagogy, TECH has carefully selected a specialized teaching team that enriches the academic experience of any graduate. It is a group of professionals involved in medical research who have not only provided the theoretical knowledge in the syllabus, but will also be available to students to share their real experiences in the field of action. In addition, the professional will have a direct communication channel through the Online Campus through which they will be able to solve all questions related to the subject.



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*Educate yourself with the guidance and support of experts in Biomedicine and prestigious research in the health field in cooperation with recognized public hospitals"*

## Management



### Dr. López-Collazo, Eduardo

- ♦ Scientific Director, Institute of Health Research, University Hospital La PAZ
- ♦ President of the IdiPAZ Research Commission
- ♦ Member of the External Scientific Committee of the Murcian Institute of Health Research
- ♦ Trustee of the Foundation for Biomedical Research of La PAZ Hospital
- ♦ 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 (2010-2013)
- ♦ Coordinator of Health Research Funds in the areas of Cancer, Infectious Diseases and HIV

## Professors

### Dr. Avendaño Ortiz , Jose

- ♦ Researcher Foundation for Biomedical Research of La Paz University Hospital (FIBHULP/ IdiPAZ)
- ♦ Researcher HM Hospitals Foundation (FiHM)
- ♦ Master's Degree in pharmacological research from the Autonomous University of Madrid
- ♦ PhD in Pharmacology and Physiology from the Autonomous University of Madrid



# 04

## Structure and Content

The syllabus of this Postgraduate Certificate integrates the most innovative and exhaustive contents, hours of additional material in different formats and the development of all the knowledge based on academic dynamism. To achieve this, TECH has applied the modern Relearning methodology, which exempts students from long hours of memorization, allowing them to assimilate the contents in a simple and gradual way, all adapted to a convenient 100% online format, which allows them to follow the program from anywhere and at any time with just a device and an Internet connection.







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*In the Online Campus you will find hours of additional material in different formats so that you can delve deeper into the sections of the syllabus in a personalized way”*

## 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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*A program designed by experts specifically for professionals like you, who want to keep up with the demands of the medical field with a comprehensive update"*

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

What should a professional do in a given situation? 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. Gérvas, 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 physician'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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of 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.

*Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current 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 on the usefulness of learning by observing experts. The system known as 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 Medical Research Project Generation guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate 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 Medical Research Project Generation** 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 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 Medical Research Project Generation**

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.

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



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- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

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