

# Postgraduate Certificate Medical Research Project Generation





## Postgraduate Certificate Medical Research Project Generation

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

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

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

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*p. 28*

# 01

# Introduction

The existence of projects in Research oriented to physiotherapeutic advances is essential to support non-pharmacological intervention for the wellbeing of patients. The different types of Physiotherapy have been discovered, precisely, by researchers who have dedicated their professional careers to the study of Orthopedics, Traumatology, Geriatrics, as well as Neurology and even physiotherapeutic techniques applied to Sports. It is a multidisciplinary profession that has opened up a range of possibilities for those who cannot be treated with operations or drugs. Given the need to incorporate alternatives to classical medicine, these modern strategies require new knowledge to broaden their field of study. For this reason, TECH has developed a 100% online program with which specialists will be able to delve into the generation of research projects and the application of the scientific method and scientific methodology, without depending on travel or fixed schedules.





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*With this Postgraduate Certificate you will improve your skills in the general structure of projects so that you can master their efficient implementation"*

Encouraging studies on Physiotherapy and the rest of Health Sciences is the responsibility of public and private organizations, but also of the specialist who is intrinsically dedicated to research in this field. The latter must be updated to keep up with the demands of the sector and the technological changes that occur on a daily basis. Only then will experts be able to incorporate novel digital tools into their trials that will streamline, drive and develop them towards their goal.

For this reason, TECH offers a totally innovative program that delves into the presentation of background and preliminary data of a scientific investigation, among many other issues. The Postgraduate Certificate in Medical Research Project Generation is 100% supported by a teaching team versed in Medical Research oriented to Physiotherapy to teach the contents with guarantees of success for the students. In addition, thanks to the Relearning methodology applied by TECH, students will not have to invest long hours of study and will be able to assimilate the syllabus in a progressive and continuous way, obtaining a more effective and enriching education.

It is a degree that is completed in only 6 weeks to speed up the academic process and provide students with skills through theoretical and practical exercises and the simulation of real cases that prepare them for their practical application. It is, therefore, an excellent opportunity for those physiotherapists who are looking for a quality university degree and wish to be part of the professional vanguard that has been developing scientific advances in this health area for years. All this, through 150 hours of audiovisual content in various formats and dynamic learning, which does not depend on travel or preset schedules.

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 self-assessment can be used to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ The availability of access to content from any fixed or portable device with an Internet connection



*Do you want to delve into the definition of hypotheses to pursue a clear objective in your project and avoid unnecessary time? Join TECH and get it with a 100% online program"*

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*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 educational 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, it 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 Virtual Campus from anywhere and with a schedule totally adapted to your availability.*



# 02

# Objectives

This Postgraduate Certificate in Medical Research Project Generation aims to update students on the efficiency of research projects, which is key in the start-up process. To achieve this, students will be provided with the most innovative academic tools and will take part in innovative and dynamic teaching. In this way, students will be able to promote studies that are much more efficient and that minimize their expenses versus 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 make available to you"*



## General Objectives

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- ◆ Adequately formulate a question or problem to be solved
- ◆ Asses the state of the art of the problem through literature search
- ◆ Assess the feasibility of the potential project
- ◆ Draft projects in accordance with the different calls for proposals
- ◆ Look for A Funding Model
- ◆ Master the necessary data analysis tools
- ◆ Writing scientific articles (*papers*) according to the target magazines
- ◆ Identify the main tools for dissemination to the non-specialized public





## Specific objectives

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- ◆ Learn how to assess the feasibility of the potential project
- ◆ Know in depth 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 reach all your goals in less than 6 weeks”*

# 03

# Course Management

Considering 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 dedicated to research, who have not only poured theoretical knowledge into the syllabus, but are also available to share their real experiences in the field with the students. In addition, the professional will have a direct communication channel through which all their questions in relation to the subject will be solved.





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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 Deputy Director in the Institute for Health Research the Health Research Institute of La Paz University Hospital
- Head of the Department of Inmune Response and Infectious Diseases at IdiPAZ
- Head of the Department of Inmune 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



*Take the chance to learn about the latest advances in this area to apply it to your daily practice"*

# 04

## Structure and Content

The content of this Postgraduate Certificate in Medical Research Project Generation is based on the knowledge of experts with extensive experience in the field. Thanks to their contribution, TECH is able to offer a rigorous and validated study, which will not only provide their theoretical knowledge for the instruction of the students, but will also share their practical experience with the specialists. All this, through the innovative Relearning methodology. A method applied by TECH to exempt students from long hours of study and enable the practical assimilation of the contents.







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*In the Virtual 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 for Proposals





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*A program designed by experts expressly 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.





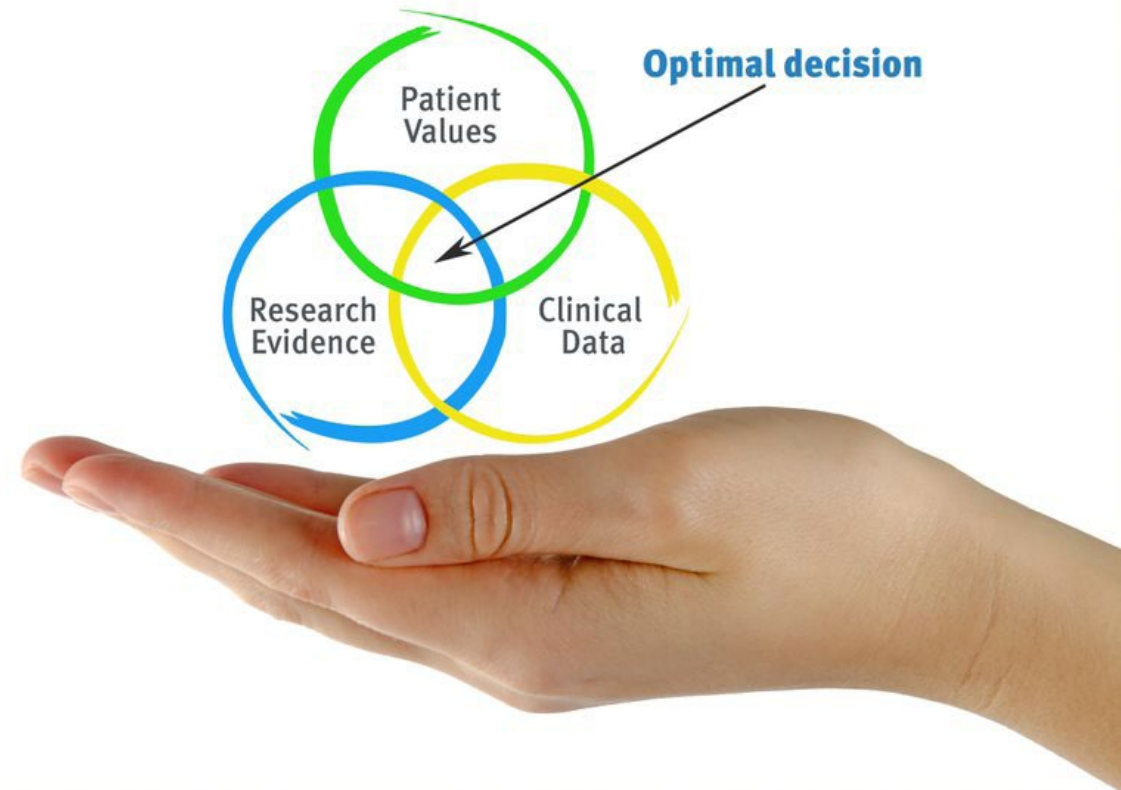
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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. Physiotherapists/kinesiologists 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 of professional physiotherapy 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. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist 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 physiotherapist/kinesiologist 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 trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical 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 our 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 really 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.



#### Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. 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 them as many times as you want.



#### 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 unique multimedia content presentation training system 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 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 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.



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Medical Research

Project Generation

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## Medical Research Project Generation

