

Postgraduate Certificate

Medical Research
Project Generation



Postgraduate Certificate Medical Research Project Generation

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

Website: www.techtute.com/us/sports-science/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

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.





“

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"

“

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”

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.

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.



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.





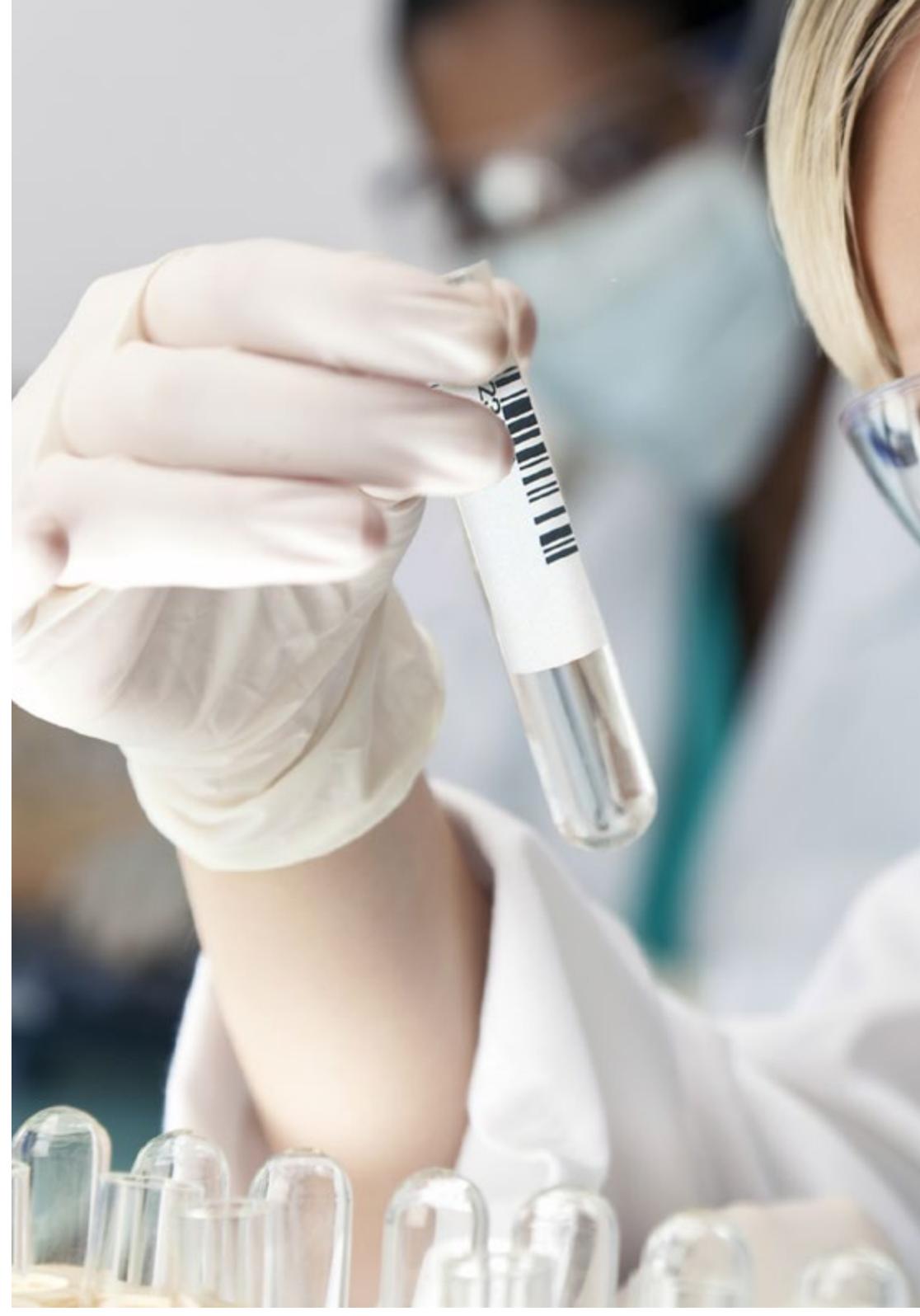
“

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

- ◆ 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

- ◆ 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

“

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.





“

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

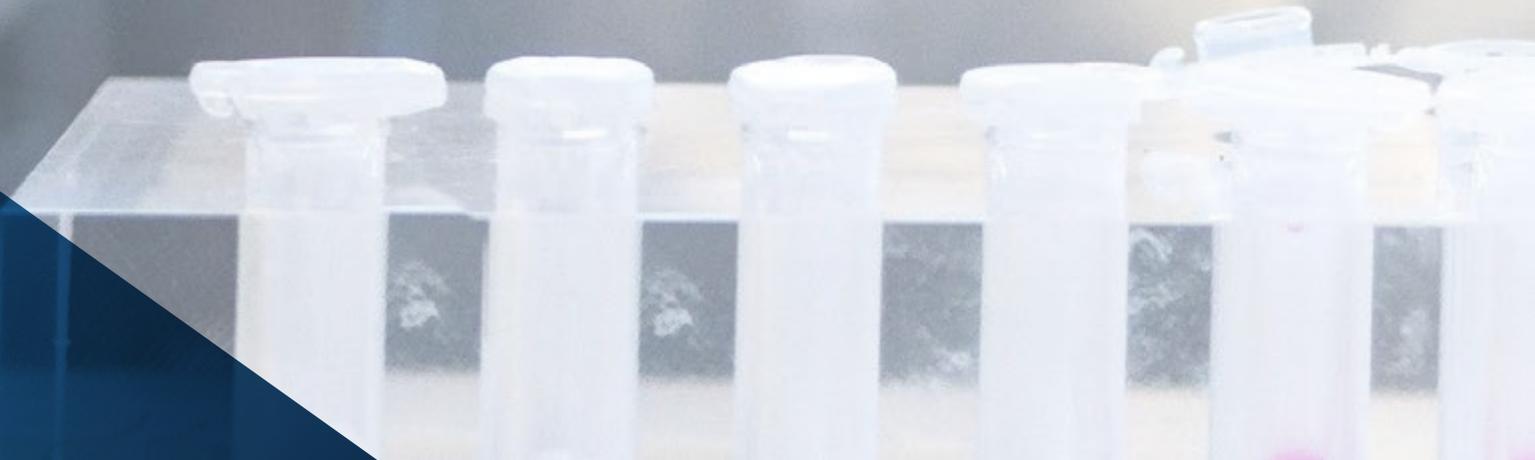


Take the chance to learn about the latest advances in this area to apply it to your daily practice”

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.



“

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





“

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.



“

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"

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"



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. 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 professional reality is taken into account.

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

The case method is the most widely used learning system in the best faculties in the world. 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 will have to combine all their knowledge and research, and 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 8 different teaching elements in each lesson.

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

In 2019, we obtained the best learning results of all online universities in the world.

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 university is the only one in the world authorized to employ 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



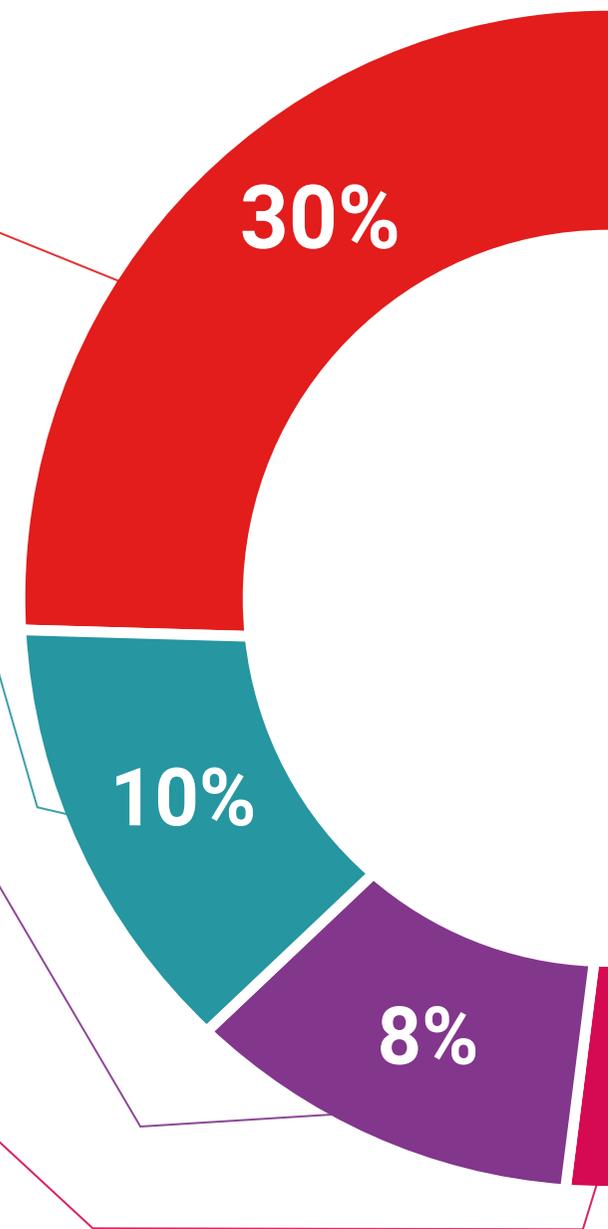
Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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 situation. Cases that are presented, analyzed, and supervised by the best 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.



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 Global University.



“

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

This program will allow you to obtain your **Postgraduate Certificate in Medical Research Project Generation** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program..

Title: **Postgraduate Certificate in Medical Research Project Generation**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



Postgraduate Certificate
Medical Research
Project Generation

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

Postgraduate Certificate Medical Research Project Generation

