

A close-up, low-angle shot of a person's face in profile, looking through the eyepiece of a black microscope. The person is wearing glasses. The background is a blurred laboratory setting with blue and white tones. The image is overlaid with a large blue diagonal shape on the left and bottom-left, and a white diagonal shape on the right and bottom-right.

# Postgraduate Certificate

## Bibliographic Positioning in Medical Research



## Postgraduate Certificate Bibliographic Positioning in Medical Research

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

Website: [www.techtitute.com/in/medicine/postgraduate-certificate/bibliographic-positioning-medical-research](http://www.techtitute.com/in/medicine/postgraduate-certificate/bibliographic-positioning-medical-research)

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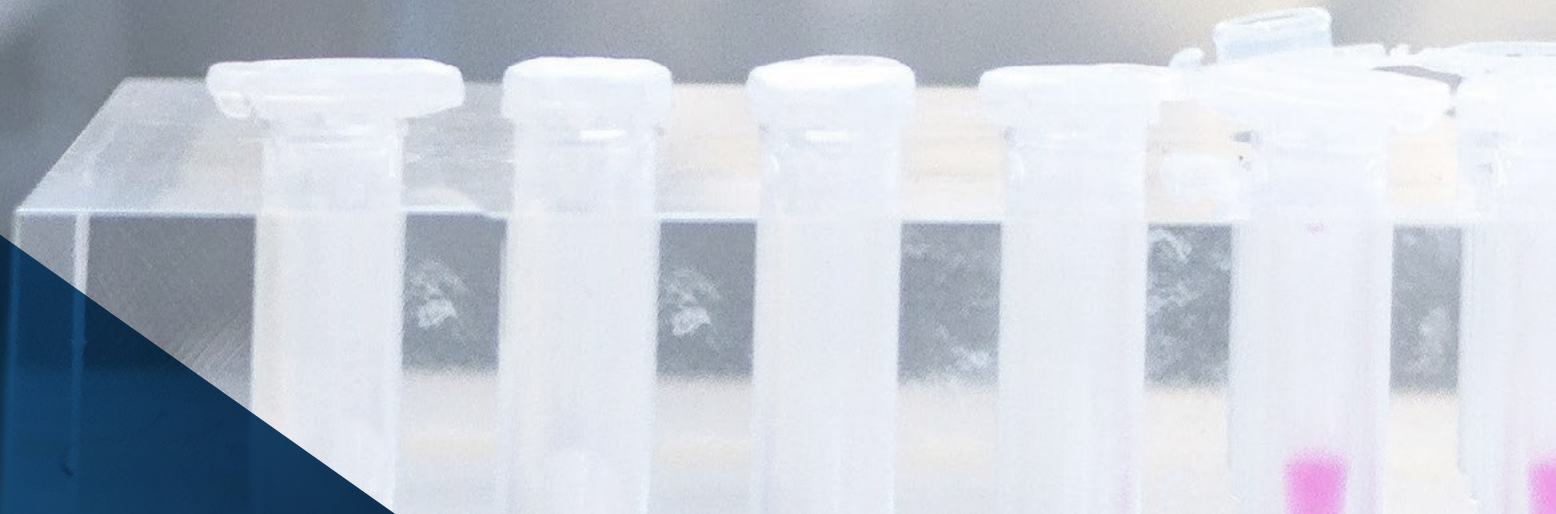
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# 01

# Introduction

Documenting the progress of medical research is essential for long-term preservation so that it can be further developed in full detail. This task is part of the scientific process and is key to collaborative studies. In fact, the rest of the researchers could have the information to develop their own projects and nourish themselves through collaborative knowledge. For this reason, the research market in medicine not only requires professionals with aspirational skills to offer new techniques in the hospital field, but they must also master the scientific method applied to health research. In this sense, TECH offers a 100% online program that explores bibliographic positioning and the treatment of sources, as actions that encompass clinical trials and certify their performance. All this, through a dynamic, complete and rigorous teaching aimed at physicians and other health science professionals.



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*With this Postgraduate Certificate, you will learn about the bibliographic positioning of Medical Research so that you can master the scientific method in only 6 weeks"*

The objective of the literature search focuses on locating quality articles that resolve a given clinical question. In order for monitoring to be efficient and for researchers to be able to develop their research project without obstacles in this area, protocols must be strictly followed in the investigation. However, for this to be possible, medical research professionals have had to preserve their findings and valuable information for years. A process that completes the clinical trial and should be approached intuitively, quickly and effectively.

For this reason, TECH offers a complete and rigorous program that instructs students on the bibliographic positioning of the question or problem to be solved and the search for information, as well as pubmed and other repositories of scientific articles. In addition, this program goes deeper into the treatment of not only bibliographic but also documentary sources and advanced search through metadata. All this, with the support of a teaching team versed in the area and with its own medical research.

In addition, TECH applies the latest learning methodology and the best audiovisual content in different formats to make teaching a flexible and simple experience. Thanks to its Relearning learning system, the Technological University exempts students from long hours of study and facilitates the gradual and constant assimilation of content. The program is 100% online, so that students can adapt the pace of their studies to their professional and personal needs.

This **Postgraduate Certificate in Bibliographic Positioning in Medical Research** 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 medical 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
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Expand your knowledge so that you can distinguish translational projects from clinical trials and also detect their similarities"*

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*Be part of the new era of up-to-date professionals and update your knowledge in advanced literature search"*

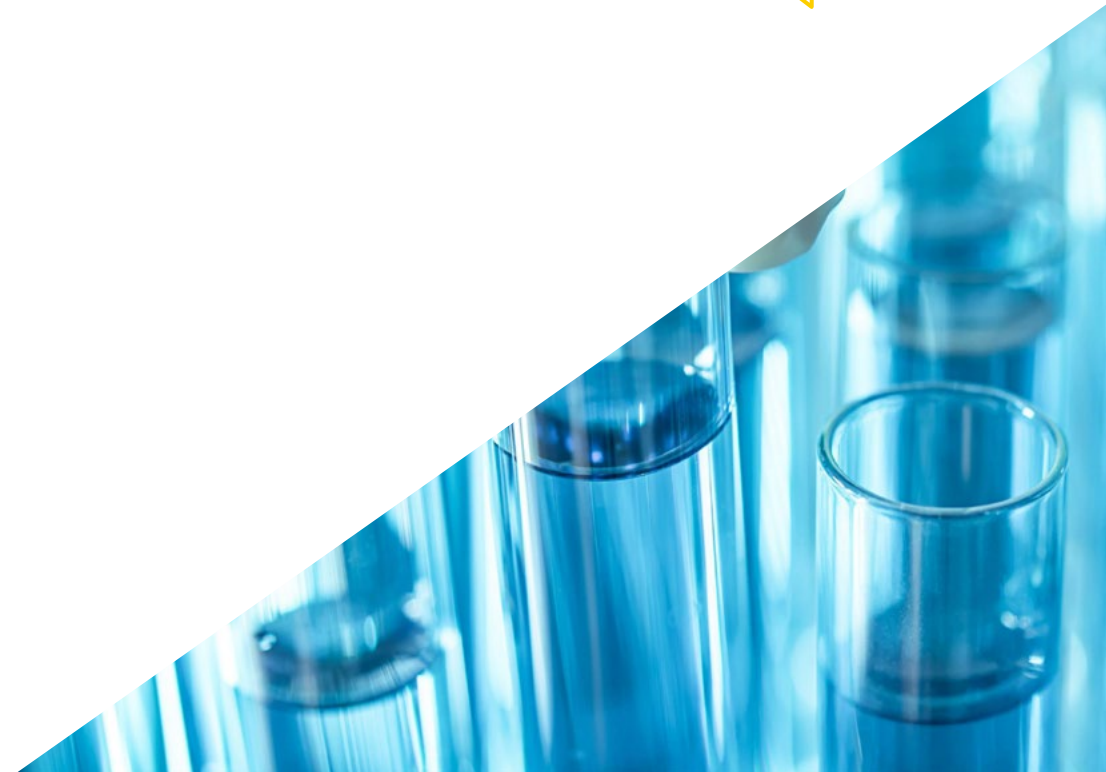
*Renew your knowledge in Medical Research to approach the new methods of bibliographic positioning.*

*Delve into a discipline focused on the design of positive and negative controls of an investigation so that you promote advances in the health field.*

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, the student will be assisted by an innovative interactive video system created by renowned experts.



# 02 Objectives

This Postgraduate Certificate in Bibliographic Positioning in Medical Research aims to broaden and update the knowledge of medical graduates in order to provide them with the most innovative strategies and techniques for the extraction of metadata in bibliographic searches and the scientific method applied to health research. Thanks to this program, students will learn how to pose a question and the methodology to follow to achieve the best possible answer, in addition to mastering all the concepts of scientific activity. This is achieved through TECH's pedagogical methodology and thanks to the support of a professional team versed in the medical-scientific area.





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*Get all the additional resources that will make your scientific study an enriching experience for your future career”*



## 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 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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- ◆ Become familiar with the scientific method to be followed to carry out a health research
- ◆ Learn the correct way to ask a question and the methodology to follow to achieve the best possible answer
- ◆ Delve into learning how to search for bibliographic methods
- ◆ Master all the concepts of scientific activity

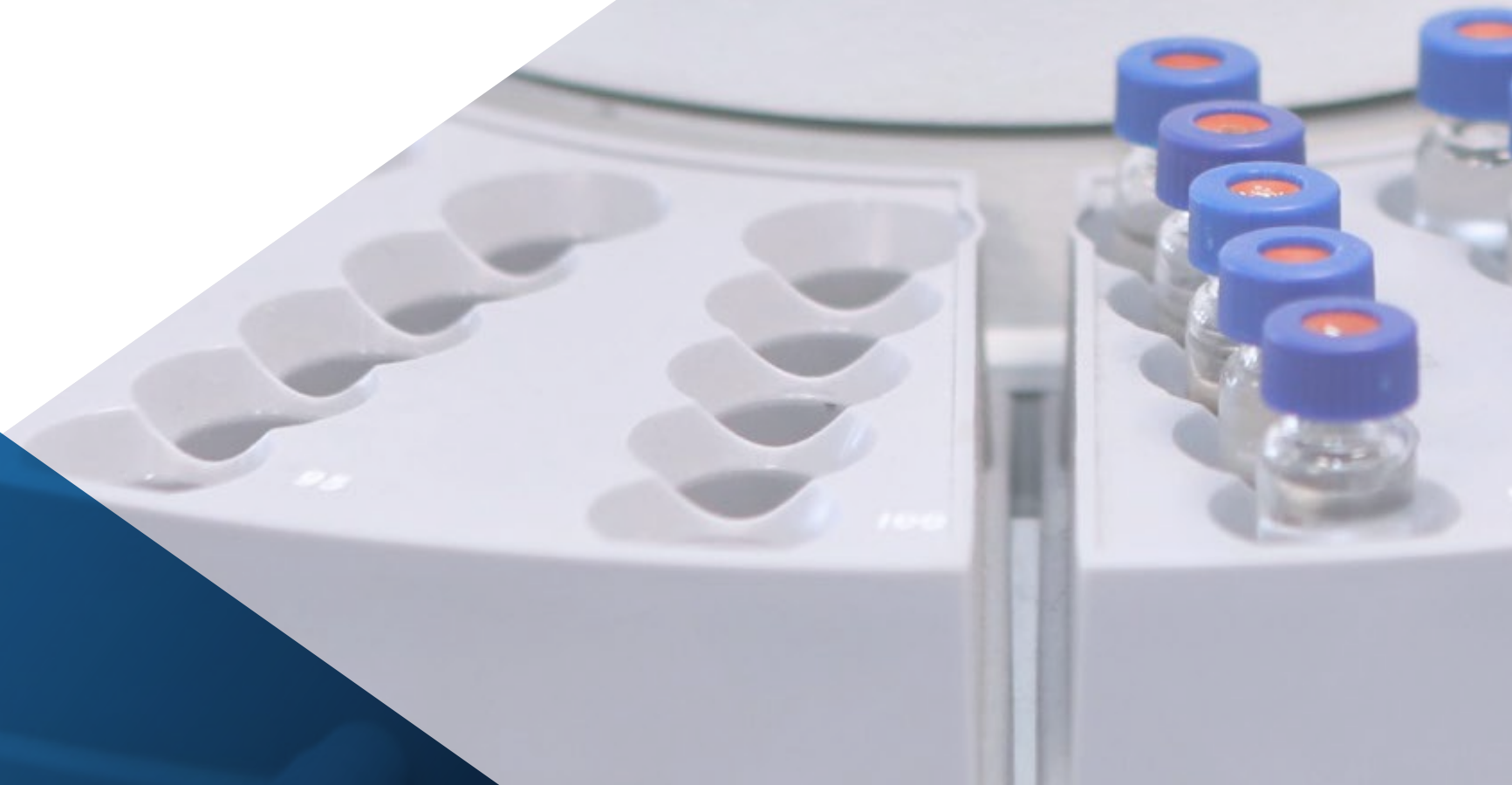
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*Increase your confidence in decision making by learning how to search bibliographic methods thanks to this Postgraduate Certificate”*

# 03

## Course Management

TECH has used teachers who are currently working in the scientific field to instruct its students. Thanks to their experience, the medical professional will not only enjoy rigorous and quality knowledge, but his or her instruction will be guaranteed by the extensive professional experience of the teachers. In addition, medical graduates and other specialists interested in the area of health enrolled in the program will have the guidance of experts to resolve all their questions through a direct communication channel. In this way, the researcher is guaranteed a correct instruction that, in turn, they will be able to put into practice in his/her day-to-day professional life.





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*TECH is nourished by great experts in public and private Health Research so that you can deepen in the generation of reference bases for multiple use with all the guarantees"*

## 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



# 04

# Structure and Content

The content of this Postgraduate Certificate in Bibliographic Positioning in Medical Research has been carefully reviewed by experts in the areas of Cancer, Infectious Diseases and HIV, among others. TECH has equipped its degrees with new pedagogical techniques to make them simpler and more effective. In this sense, the program is proposed under a 100% online modality and the Relearning methodology, in order to enable a study free of long hours of memorization, thanks to the gradual assimilation of the contents. A teaching based on constant learning and theoretical-practical materials, which will provide the specialist with all the necessary information to be up to date with the most effective scientific methods in research.







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*A program designed to boost your professional career thanks to updated research skills for research projects”*

**Module 1.** The Scientific Method Applied to Health Research. Bibliographic positioning of the research

- 1.1. Definition of the Question or Problem to be Solved
- 1.2. Bibliographic Positioning of the Question or Problem to be Solved
  - 1.2.1. Information Search
    - 1.2.1.1. Pubmed and Other Repositories of Scientific Articles
  - 1.2.2. Pubmed and Other Repositories of Scientific Articles
- 1.3. Treatment of Bibliographic Sources
- 1.4. Treatment of Documentary Sources
- 1.5. Advanced Bibliography Search
- 1.6. Generation of Reference Bases for Multiple Use
- 1.7. Bibliography Managers
- 1.8. Extraction of Metadata in Bibliographic Searches
- 1.9. Definition of the Scientific Methodology to be Followed
  - 1.9.1. Selection of the Necessary Tools
  - 1.9.2. Design of Positive and Negative Controls in an Investigation
- 1.10. Translational Projects and Clinical Trials: Similarities and Differences





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*A program designed for specialists like you, who wish to promote scientific research in accordance with the protocols that benefit it"*

# 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 Bibliographic Positioning in Medical Research 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 Bibliographic Positioning in Medical Research** 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 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 Bibliographic Positioning in Medical Research**

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.



**Postgraduate Certificate**  
Bibliographic Positioning  
in Medical Research

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

# Postgraduate Certificate

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