

# 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.techtute.com/in/dentistry/postgraduate-certificate/bibliographic-positioning-medical-research](http://www.techtute.com/in/dentistry/postgraduate-certificate/bibliographic-positioning-medical-research)

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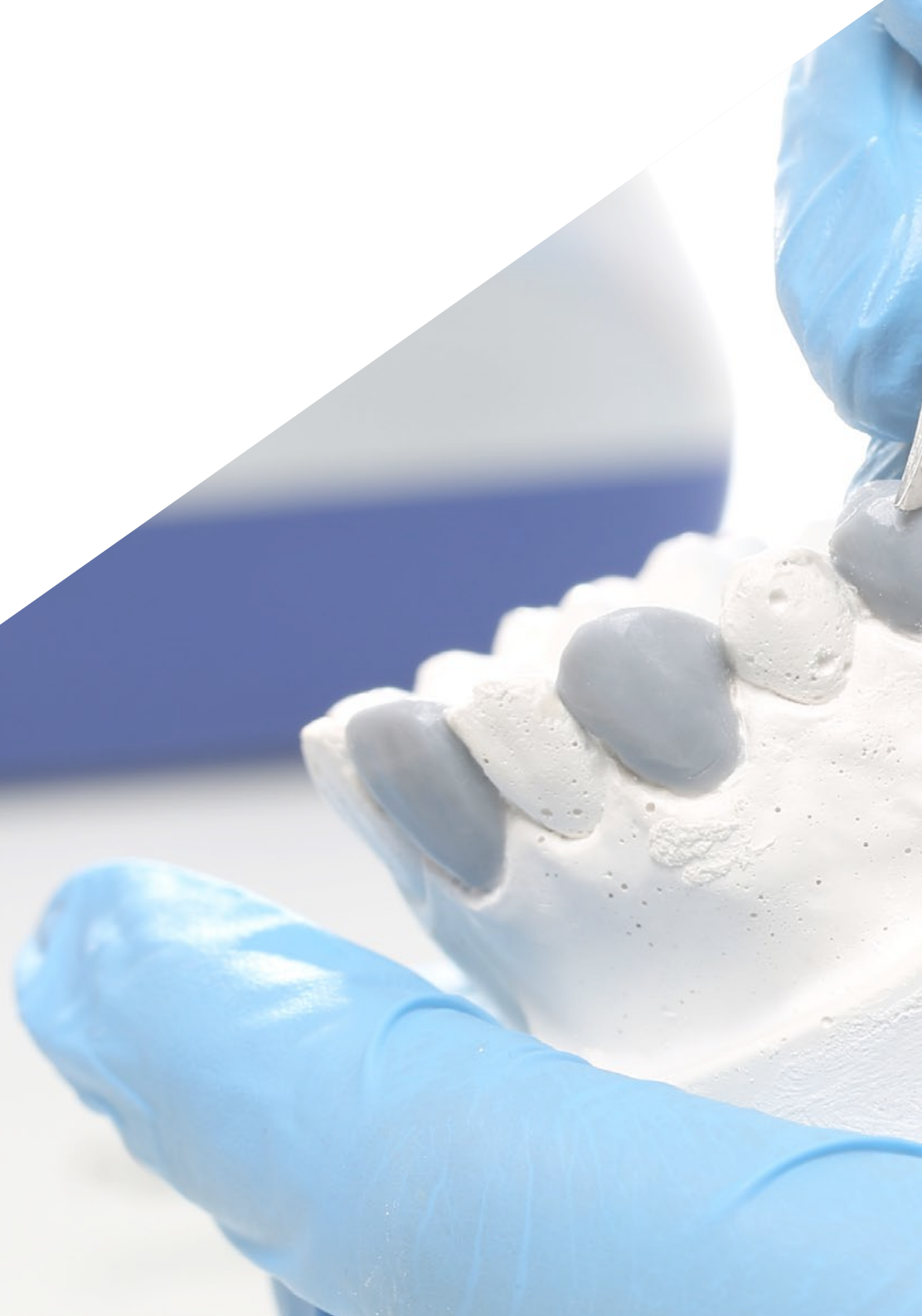
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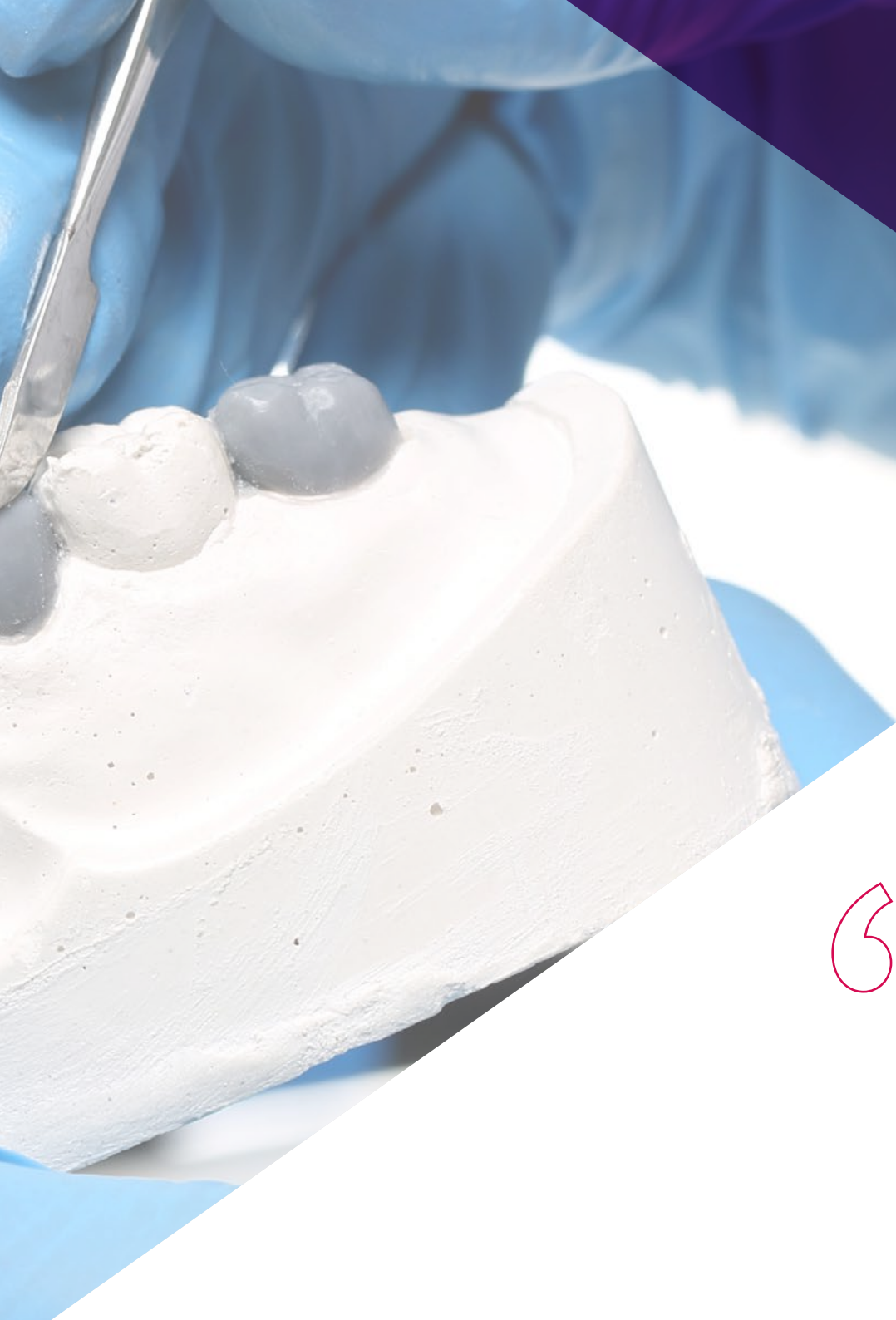
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# 01

# Introduction

Bibliographic positioning is postulated as a critical aspect of dental research and can make the difference between solid research work and one with some deficiencies. By performing a rigorous literature review, the current state of scientific knowledge on a specific area is established, identifying gaps that need to be addressed. This is why the dentist will find in this program a unique opportunity to get up to date and improve on research techniques. Therefore, they will delve into the elaboration of papers, analyze the search for bibliographic methods and polish their skills related to Data Protection. And, all this 100% online.





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*Thanks to this complete program you will master the latest tools of Medical Research applicable to Dentistry in only 150 hours”*

Since research in dentistry is, like any reliable scientific project, based on evidence, it is necessary to have a good command of the existing literature in the field in order to develop solid and coherent work. In fact, bibliographic positioning strengthens the credibility and validity of research results by providing an adequate basis for the theoretical framework or conclusions. Similarly, well-conducted studies and literature reviews provide a robust basis for the identification of relevant research questions and the formulation of appropriate hypotheses.

Knowing that it is imperative for the dental professional to be continuously up to date in this area, TECH offers a specific and detailed program focused on the bibliographic positioning of the question posed by the researcher and the search for information itself. Therefore, the use of open access databases specialized in Dentistry, such as DOAJ, will be studied in depth. The program will, in turn, cover the methods of processing documentation sources and the use of metadata for more detailed searches.

For this, TECH applies the latest educational formulas, such as the Relearning methodology. With it, students will assimilate the contents in a progressive and continuous way, avoiding arduous study days that last longer than necessary. Similarly, access to both theoretical and practical content is remote, allowing students access from any device with an Internet connection.

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 Bibliographic Positioning in Medical Research
- ◆ The graphic, schematic, and practical contents with which they are created, compile 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



*Get the necessary resources that will make your scientific study a job that will expand your boundaries in the professional field of dentistry”*

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*Do not leave anything to chance; control and apply the essential concepts in dental research thanks to this Postgraduate Certificate”*

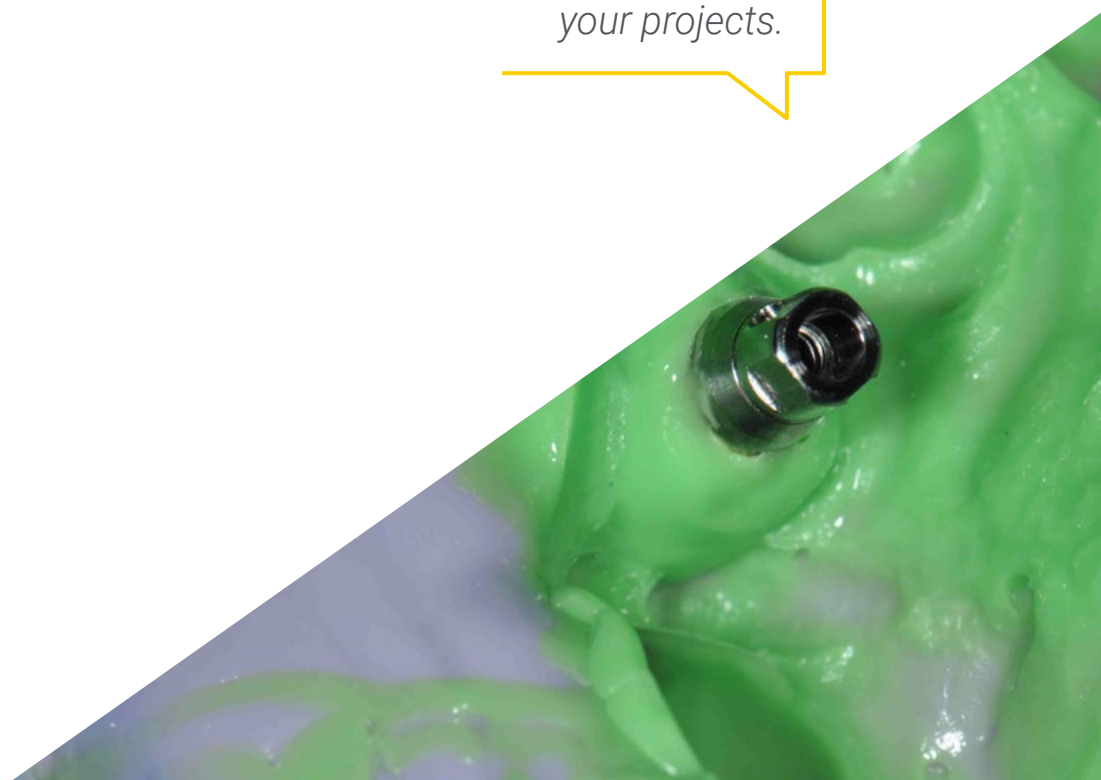
The program includes in its teaching staff professionals from the sector who bring to this program the experience of their work, as well as recognized specialists from leading societies and prestigious universities.

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 is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*It analyzes in detail the concepts of searching for and gathering information from key sites on the Web thanks to a training structure adapted to modern times.*

*Delve into the use of research tools in the most efficient way possible to facilitate the development of your projects.*



# 02

# Objectives

This Diploma seeks to bring up to date the dental professionals who need to have the most recent and advanced techniques and tools in relation to the extraction and search for data, applying the scientific method to this branch of Health Sciences. With TECH's teaching system, students will ask the most specific questions by examining the scientific method with which they will obtain the best possible answer. This will be achieved thanks to the pedagogical system promoted by the university, an online and comfortable preparation so that the student can combine it with work life balance aided by a team of referent teachers.





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*Achieve the objectives of the program and become a benchmark researcher who is proficient in the different bibliographic methods”*



## 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 scholarly journals
- ♦ 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 for 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 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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*The concepts you will study in depth in this academic opportunity will allow you to master all the keys to scientific activity”*

# 03

# Course Management

TECH has assembled a teaching team of experts who have actively worked in the scientific field to position themselves as academic references, being an excellent guide for students. Thanks to their extensive experience, the dentist will benefit from the most innovative and quality knowledge, receiving advice and methodologies applicable to the professional world directly from the best. Another of the main characteristics of this Postgraduate Certificate is the possibility of direct contact with the professors, which allows the resolution of doubts without delay.



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*Successful case studies, mastery of the scientific method, control of search tools, etc. You will examine all this and more in a program taught by leading teachers in the sector”*

## 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 contents that structure this Postgraduate Certificate in Bibliographic Positioning in Medical Research have been developed by research experts who have carefully supervised each topic, with all the keys that the student needs. In addition, TECH provides its programs with innovative teaching techniques such as Relearning, with which students will gradually delve into each of the ideas more effectively.





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*A Postgraduate Certificate with which you will perfect your skills in Bibliographic Positioning in Medical Research to take a step forward as a dental professional”*

**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
    - Strategies and Keywords 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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*Pubmed, documentary sources, Bibliography managers, etc. All the concepts you need to examine and excel in your research can be found in the Syllabus”*

# 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 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 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.

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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- » Dedication: 16h/week
- » Schedule: at your own pace
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