

Postgraduate Certificate Collaborative Research





Postgraduate Certificate Collaborative Research

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/collaborative-research

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01

Introduction

New technologies have allowed Collaborative Research to become an experience. Thanks to databases, the digital cooperation of public and private entities and the instantaneous transit of information online, have led to the generation of large joint projects. In this way, risks are reduced, and the development process is speeded up, bringing new advances to the health field, among other areas. For this reason, TECH Technological University has considered it necessary to develop a program with which specialists can delve into generation of work groups, distribution of responsibilities and the keys to leadership. This is a 100% online program, designed by experts in research and thanks to which, in only 150 hours, the professionals will be able to update their knowledge and improve their skills, with the guarantee of a great university.



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With this Postgraduate Certificate, you will delve into Collaborative Research and all its ins and outs in just 6 educational weeks"

Collaborative research implies a before and an after for scientific advances in health. An example of this is the search for the vaccine against COVID. The simultaneity of the research and its cooperation gave rise to several types of immunization in just a few months. In this sense, the research work was key and had an impact on other areas, such as pharmacological or social. Therefore, in view of the imminent changes in epidemiological diseases and other diseases for which no effective treatment has yet been found, it is essential that medical research continues to develop.

In response to the great demand in the healthcare market for specialists who focus on clinical, basic and translational observation, TECH Technological University has developed a complete and rigorous program focused on Collaborative Research. This is a program that aims to update the skills of physicians and other professionals interested in Health Sciences, so that they can contribute to the scientific advancement of this field. Through this modern digital teaching, specialists will learn about collaborative networks for health research, new workspaces in the network and biobanks of samples, among many other issues.

For this, the professionals will have 150 hours of theoretical, practical and additional contents in various formats that will make them enjoy an accessible degree. All this, through a 100% online program that allows access to the syllabus through the virtual campus at any time and anywhere, without having to travel nor a fixed schedule. In addition, TECH Technological University has called on a team of teachers with years of research experience in this sector to bring all their knowledge to the program and, to the students enrolled in it.

This **Postgraduate Certificate in Collaborative 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 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



A unique opportunity to get up to date on networked biomedical research centers in a 100% online modality"

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This program will not only provide you with knowledge in the generation of working groups, but will also help you develop the necessary leadership skills to be at the forefront of scientific projects"

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.

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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Would you like to be part of the professionals that are at the forefront of research? Cooperate with other researchers to learn from them, thanks to TECH Technological University.

Count now with 150 hours of content presented in different formats, selected by experts in Medical Research.



02 Objectives

TECH Technological University is aware of the need to study the numerous pathologies and diseases suffered by patients. In order to improve the quality of life of individuals and shed light on the performance of treatments, this university has developed a program aimed at doctors and other health specialists interested in Collaborative Research. The ultimate goal is to allow the specialists to know in detail the advances in the generation of remote working groups and through the Internet, so that they are able to lead them in a guaranteed way, through a comprehensive teaching and fully adapted to their availability.



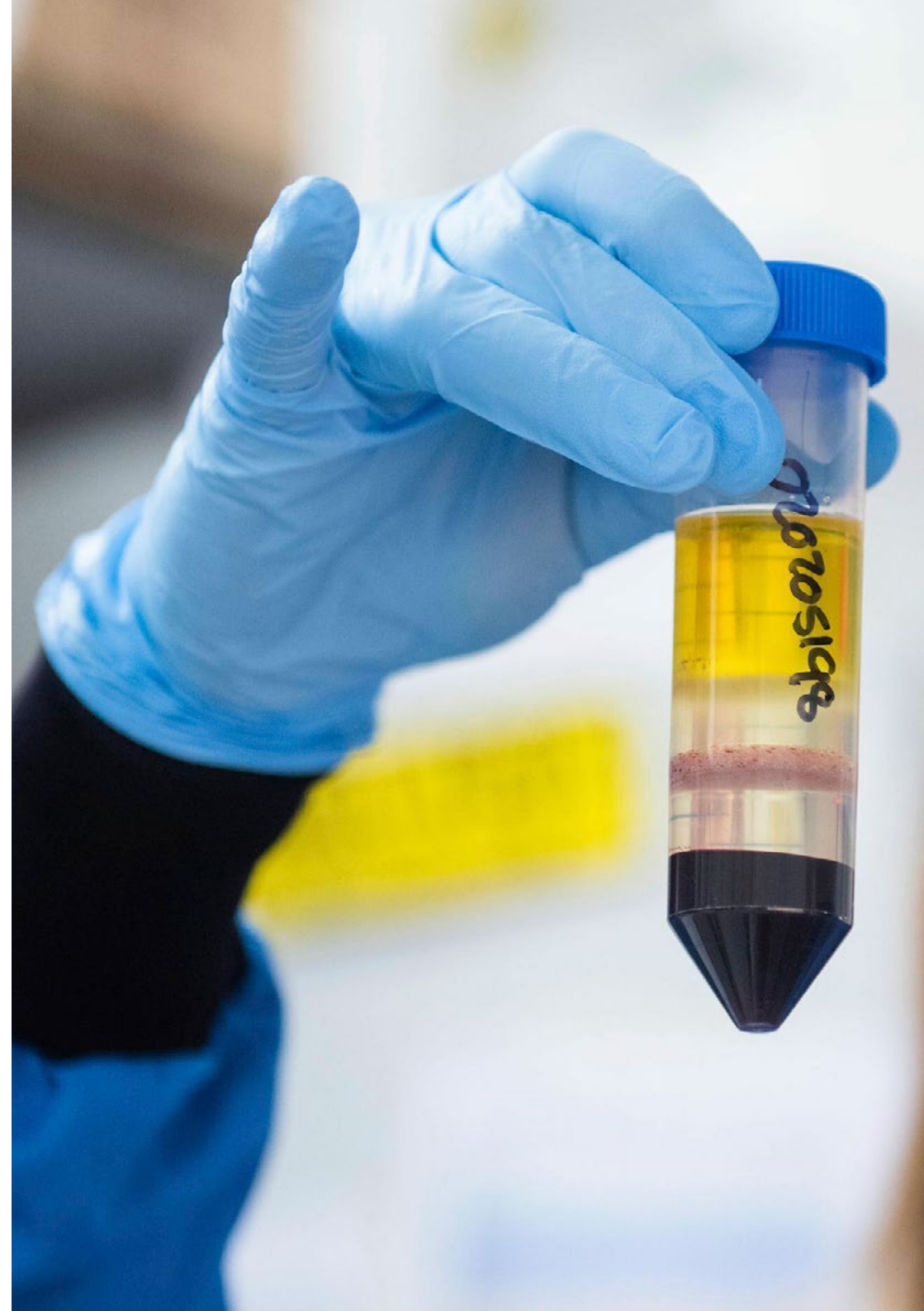
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TECH's purpose is that you achieve your goals. Delve into International Collaborative Research to develop your research career at global level"



General Objectives

- ◆ 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) according to 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

- ◆ Learn how to create working groups
- ◆ Create new biomedical research spaces
- ◆ Permanent collaboration with other research areas

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You will be able to improve your skills in basic, translational and clinical research and contribute to the development of cooperative projects”



03

Course Management

TECH Technological University offers a plus of quality in its programs, as it always uses experts in the field to provide their theoretical and practical knowledge in the program. In this case, a group of medical professionals versed in research has been selected for the Postgraduate Certificate. These experts have developed studies on Cancer, Infectious Diseases and HIV for years in prestigious hospitals. Thanks to this, the students will be able to learn in detail the latest developments in this field from practicing experts.



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TECH will bring you closer to the maximum update in your research area with the guidance of professionals who have developed medical research for years”

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

Professors

Dr. Gómez Campelo, Paloma

- ♦ Researcher at the Health Research Institute of La Paz University Hospital
- ♦ Deputy Technical Director of the Health Research Institute of La Paz University Hospital
- ♦ Director of the Biobank of the Health Research Institute of the University Hospital La Paz
- ♦ Collaborating Teacher of the Polytechnic University of Catalonia
- ♦ Doctorate in Psychology the Complutense University of Madrid
- ♦ Degree in Psychology from the Complutense University Madrid



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Structure and Content

Aimed at imparting relevant knowledge, this program includes 150 hours of the best theoretical, practical and additional content presented in different formats: detailed videos, self-knowledge exercises, images, dynamic summaries, research articles and complementary readings. All of this, focused on the technological innovations of Collaborative Research and the ins and outs of leadership. In addition, with the support of the teachers, the specialists will be able to delve in a personalized way in each section, obtaining from this teaching experience a broad and comprehensive knowledge that will make them even more competitive professionals when offering solutions in the medical field.





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You will delve into the latest developments related to sample biobanks so that you can share your results with other professionals who study in the same field”

Module 1. Generation of Working Groups: Collaborative Research

- 1.1. Definition of Working Groups
- 1.2. Formation of Multidisciplinary Teams
- 1.3. Optimal Distribution of Responsibilities
- 1.4. Leadership
- 1.5. Control of Activities Achievement
- 1.6. Hospital Research Teams
 - 1.6.1. Clinical Research
 - 1.6.2. Basic Research
 - 1.6.3. Translational Research
- 1.7. Creation of Collaborative Networks for Health Research
- 1.8. New Spaces for Health Research
 - 1.8.1. Thematic Networks
- 1.9. Networked Biomedical Research Centers
- 1.10. Biobanks of Samples International Collaborative Research





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A Postgraduate Certificate designed for professionals like you, who are looking to improve their practical skills in hospital research teams”

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

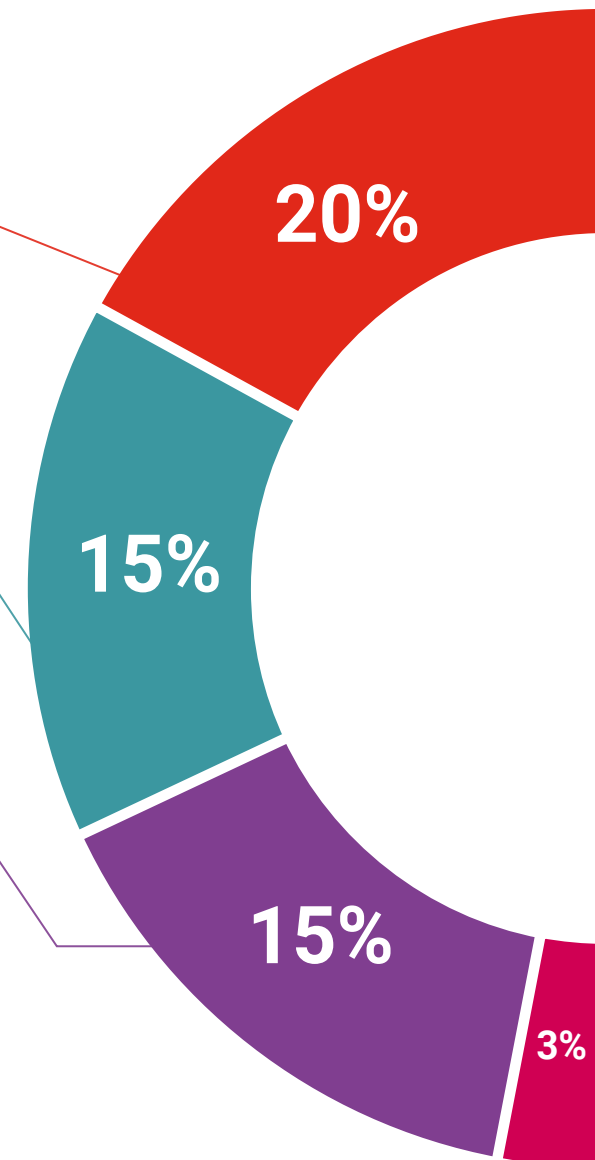
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

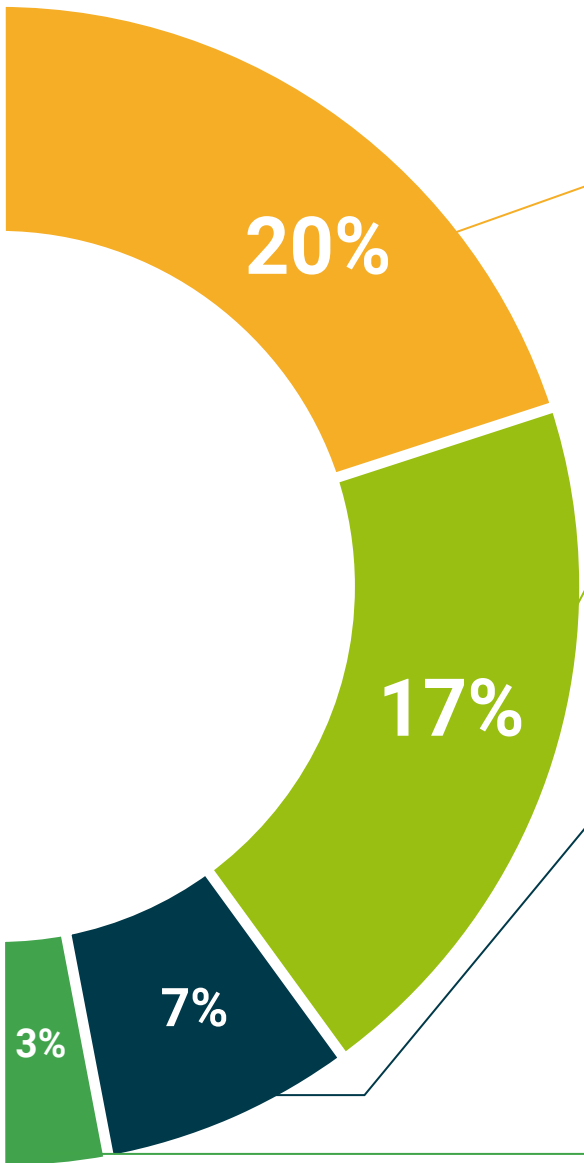
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Collaborative 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 Collaborative 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 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 Collaborative Research**

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 language
virtual classroom



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Postgraduate Certificate

Collaborative Research