

# Internship Program Medical Research





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# 01 Introduction

Diseases such as Alzheimer's disease, cancer and hepatitis B continue to be of concern to the scientific community, which is calling for more funding for research. Although it is true that these have increased in recent years due to the relevance of the Covid-19 pandemic. A reality that has boosted health and research collaboration and the collection of data through new technologies. An important step, which has forced, on the other hand, medical professionals to be constantly updated. Against this background, TECH offers this program, which consists of a practical stay in a prestigious research center. A real and close scenario, where specialists will expand their skills in the dissemination of results, the use of statistical techniques or methods of project writing. All this, hand in hand with other professionals with experience in this field.



*Enjoy an intensive 3-week stay in a reputable center and get up to date on the latest clinical procedures to achieve professional growth"*



One of the main challenges in setting up a research team is to obtain funding to start it up. However, at present, greater public-private concern for healthcare has led to an increase in investment in this area, while at the same time there is greater interest in disseminating medical advances and discoveries to the population as a whole. A reevaluation of the role of research professionals in this field, who must constantly update their knowledge.

Faced with this reality, this academic institution has created this 3-week Internship Program. During this period, professionals will be in a prestigious center with active and experienced researchers. This will allow them to test, in a real scenario, the methods and protocols used to obtain information. In addition, they will be familiar with the statistical programs used, as well as the different means to create projects and disseminate the results obtained. An intensive program, taught by the best professionals in the field of medical research.



*Through this program you will learn about the most innovative and effective techniques used in medical research projects"*



## 02 Why Study an Internship Program?

With this Internship Program, physicians will be able to expand their practice as a clinical researcher in a significant way. Throughout their on-site stay in a prestigious institution, within the wide network of centers with which TECH collaborates, they will be able to update their mastery of qualitative and quantitative techniques for analyzing data and results. At the same time, they will be able to examine the most innovative analysis tools and resources. With all this, they will be able to develop in-depth studies within the health sector and achieve professional excellence.



*A face-to-face, dynamic and intensive stay, where you will cover disruptive technologies and tools that facilitate and reduce error biases in Medical Research"*

### 1. Updating from the latest technology available

During their Internship Program, specialists will address the latest information related to the use of the most up-to-date equipment and software in relation to Medical Research. Therefore, will be able to apply their different functions in the development of studies, acquiring experiences based on the challenges and demands of a highly professional clinical center.

### 2. Gaining in-depth knowledge from the experience of top specialists

Throughout the face-to-face stay provided by this TECH program, physicians will be supported by an adjunct tutor. This figure stands out for their specialization in Medical Research and for handling the most disruptive concepts within this area. In addition, they will be in constant collaboration with the rest of the experts working in the practice center, consulting doubts and receiving clarifications.

### 3. Entering first-class hospital environments

This Internship Program process is the ideal opportunity for professionals to be inserted in an environment of excellence, equipped with the best clinical and research resources. Therefore, specialists will be able to identify the different challenges and areas of analysis in which they could develop a career, contributing significant medical discoveries.



### 4. Putting the acquired knowledge into daily practice from the very first moment

This program is based on an eminently Internship Program approach for doctors who wish to update their research skills and will be able to join institutions equipped with the best analytical resources. From the first day they will be guided through all the processes and work areas of the institution and will be able to expand their skills in an intensive way.

### 5. Expanding the boundaries of knowledge

TECH has an extensive network of institutions with which it arranges internships for its students. Therefore, physicians who opt for this program will have at their disposal centers located in different parts of the world and will be able to examine in situ the standardized approaches that make these entities true international references.



*You will have full practical immersion at the center of your choice"*

# 03 Objectives



## General Objective

- The objective of this Internship Program is to bring professionals closer to the most direct and current information on Medical Research. Therefore, during 3 weeks, graduates will be able to be aware of the techniques, methods and programs used to successfully carry out scientific projects in the health field. In this process, specialists will be guided by a professional from the center where the stay is carried out



*TECH gives you the opportunity to update your knowledge in a real scenario, with professionals with extensive experience in the field of health research"*



## Specific Objectives

- 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
- Create new biomedical research spaces
- 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 generate protocols
- Documentation management
- Learn how to use the R program
- Define and understand the regression method and multivariate analysis with R
- Recognize the concepts of statistics applied to research
- Obtain in-depth knowledge of dimensionality reduction methods
- Delve into the comparison of methods
- Turn a scientific paper into outreach material
- Introduction to the world of results protection
- Know in depth about patents and similar
- Study in depth the possibilities for the creation of spin-off companies



*In 120 hours, obtain the most direct and updated vision of Medical Research"*



# 04 Educational Plan

The Internship Program of this program in Medical Research consists of 3 weeks of duration in a prestigious center of reference. This will provide professionals with the most updated knowledge in this field from the hand of outstanding specialists with extensive research experience.

Therefore, from Monday to Friday, in consecutive 8-hour days, medical professionals will work in a real scenario, which will provide a direct and close vision of the techniques and methods used in this field today.

In this specialization proposal, of a completely practical nature, the activities are aimed at the development and improvement of the skills necessary for the provision of medical research services, in conditions that require a high level of qualification, and which are oriented towards specific specialization for the exercise of the activity, in a competitive environment, which requires high professional performance.

This is, without a doubt, an excellent opportunity for professionals who wish to be up to date on medical research, project financing, the creation of collaborative groups or the most effective statistical tools used to carry out studies in the health field. In this process, not only will they have at their side an expert from the center where they take the Internship Program, but also a TECH teacher will guide them to successfully achieve the objectives set.

The practical teaching will be carried out with the accompaniment and guidance of the professors and other fellow students who will facilitate teamwork and multidisciplinary integration as transversal competencies for medical practice (learning to be and learning to relate).

The procedures described below will be the basis of the specialization, and their realization will be subject to the center's own availability, its usual activity and workload, the proposed activities being the following:



*Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"*



Module	Practical Activity
Research Projects	Collaborate in the design and writing of research projects in Health Sciences
	Help generate specific project formats for funding in different calls for proposals
	Contribute to generate graphs from the data obtained in a project
	Help to perform the appropriate protection/transfer of the generated data
	Manage the different phases of clinical trials.
	Manage scientific reports and articles
	Assist in the generation of graphs for the visual interpretation of the data obtained in a research project
	Help generate specific project formats for funding in different calls for proposals
	Handle computational Statistics tools
	Collaborate in the generation of graphs for the visual interpretation of the data obtained in a research project
	Manage scientific reports and articles
	Provide support to convert a scientific work into divulgation material
Field Work	Manage scientific reports and articles
	Value the results of a research project
	Collect biological samples to identify possible abnormalities or characteristics relevant to medical research
	Perform laboratory tests to aid in the diagnosis and treatment of diseases
Use of tools and software	Analyze epidemiological data, crucial to understanding public health and disease prevention
	Interview patients to gather relevant information about their medical history, current symptoms, lifestyle and other pertinent variables
	Use information in documentary databases in the field of Health Sciences for the bibliographic support of a research project
	Contribute to the processing of the results obtained with statistical tools, massive data analysis and computational statistics
	Manage at an advanced user level statistical packages for the treatment of the information collected in research in the field of Health Sciences
Dissemination of Results	Handle computational Statistics tools
	Handle the tools for dissemination to non-specialized audiences
	Participate in the dissemination of results
	Make critical and reasoned judgments on the validity and reliability of scientific information in the health field
	Value the results of a research project
	Provide support to convert a scientific work into divulgation material



# 05 Where Can I Do the Internship Program?

In order to maintain its philosophy of offering quality knowledge updating, TECH rigorously selects the centers where professionals carry out the Internship Program. In this way, specialist will be able to be updated, in a real and prestigious environment, receiving guidance from professionals specialized in the field of medical research. An experience that will have a positive impact and will allow them to enhance their abilities and skills in this field.

“ You will achieve in this Internship Program to be aware of the most recent statistical methods applied to medical research”



The student will be able to do this program at the following centers:



Medicine

### IdiPAZ

Country: Spain  
City: Madrid

Address: Paseo de la Castellana 261, North Building, 28046 Madrid

La Paz University Hospital Research Institute

**Related internship programs:**

- Medical Research
- MBA in Clinical Trials Management and Monitoring



Medicine

### CSIC

Country: Spain  
City: Madrid


Address: Calle Serrano,117, Chamartín, 28006 Madrid

Spanish State Agency for Scientific Research and Technological Development

**Related internship programs:**

- Allergology





Medicine

### Rehamex

Country	City
Mexico	Mexico

Address: J.J. Fernández de Lizardi No. 5, Cto. Novelistas, Ciudad S atelite, Naucalpan

Center specialized in rehabilitation and physical health promotion.

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**Related internship programs:**

- Diagnosis in Physiotherapy
- Sports Physiotherapy

“ Make the most of this opportunity to surround yourself with expert professionals and learn from their work methodology”





# 06 General Conditions

## Civil Liability Insurance

This institution's main concern is to guarantee the safety of the students and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the Internship Program period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Internship Program, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor, whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

**3. ABSENCE:** If the students does not show up on the start date of the Internship Program, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Internship Program will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** The Internship Program shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Internship Program. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

**7. DOES NOT INCLUDE:** The Internship Program will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed.

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

# 07 Certificate

This private qualification will allow you to obtain an **Internship Program's diploma in Medical Research** 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** private qualification, 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: **Internship Program in Medical Research**

Duration: **3 weeks**

Attendance: **Monday to Friday, 8-hour consecutive shifts**

Accreditation: **4 ECTS**



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Internship Program  
Medical Research



# Internship Program

## Medical Research

