

# Internship Program Electrotherapy in Rehabilitation Medicine



**tech** global  
university

Internship Program  
Electrotherapy in  
Rehabilitation Medicine

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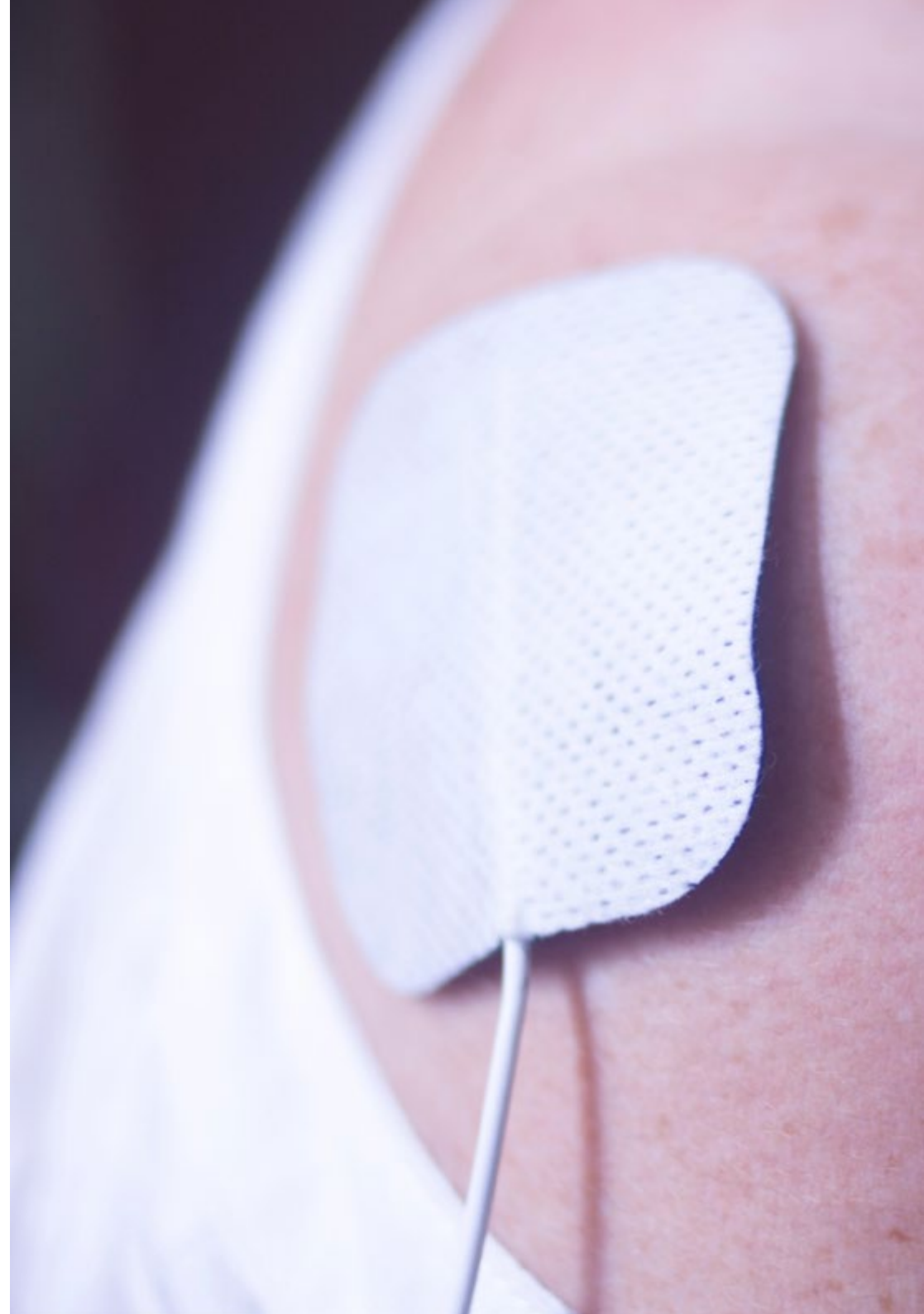
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# 01 Introduction

Electrotherapy has become one of the most widely used treatments in Rehabilitation Medicine thanks to the incredible results it has shown in the specialized management of injuries and diseases. Its anti-inflammatory and analgesic power has increased its demand, becoming a service widely requested by patients. For this reason, and in view of the new developments that have arisen regarding its application, TECH has developed a practical program so that the graduate can learn about these new developments in a reference clinical center. Thus, you will have access to 120 hours of stay with a rehabilitation team of the highest level, which will guide you during the 3 weeks so that you can get the most out of this experience.



*The best program to perfect your skills in high frequency Electrotherapy and its analgesic function in a practical and 100% immersive way"*



The use of electromagnetic fields as a therapeutic tool has experienced great progress since the end of the last century. This development ran parallel to the increasing knowledge of the physiology of the human being, which facilitated the design and evolution of different types of treatments based on the application of electromagnetic fields. Thus, these types of techniques are currently and successfully applied in the field of rehabilitation. This therapy, therefore, is essential for those patients who are undergoing this complex process and, therefore, having a practical management in this matter makes the difference to offer the best care.

Based on this, TECH has decided to launch an Internship Program that allows the graduate to get up to date with the latest developments in this technique through a 120-hour stay in a reference clinical center. This is a unique opportunity to become part of a great medical team with which you can learn in detail the latest developments in the application of electrotherapy for the therapeutic management of various pathologies. In addition, you will work intensively in the approach of multiple cases, also perfecting your diagnostic and analytical skills for the guideline of specialized treatments with the requirements of each ailment or disease.

All this during 3 weeks with the support of a specialized tutor, who will ensure that all the requirements for which this great experience was designed are met. In this way, the graduate will have access to a unique opportunity to be updated by the best, using their experience and medical strategies to perfect his or her own.

# 02

## Why Study an Internship Program?

TECH's top priority is always to create the best academic programs, adapted not only to the different needs of the students, but also to the most demanding requirements of their sector. For this reason, the launching of programs such as this Internship Program is an unparalleled opportunity to improve their skills with the best experts in Electrotherapy, accompanying them in their daily work and being part of the practice, both in diagnostic and therapeutic procedures.



*There is no other program in the academic market that resembles the one offered by TECH, both in terms of the opportunity it provides and the possibilities it offers. that is similar to the one TECH offers, both in terms of the opportunity it provides and the possibilities it offers"*

### 1. Updating from the latest technology available

Thanks to this program, the graduate will have the opportunity to have access to the latest clinical technology developed, since one of TECH's priorities is that the centers that are part of the internships have it available. Thus, they guarantee a comprehensive update of the student's knowledge, providing him with all the information he needs to master the most complex and sophisticated tools that will be part of his day-to-day practice.

### 2. Gaining In-Depth Knowledge from the Experience of Top Specialists

The support you will receive from a specialized tutor and a group of professionals of the highest level will allow you to learn from their experience and trajectory the best clinical and communicative management strategies for the patient. It is, therefore, a unique opportunity to grow hand in hand with the best professionals, experts versed in Rehabilitation Medicine who have achieved countless advances through hard and specialized work.

### 3. Entering First-Class Clinical Environments

Accessing this Internship Program will give the graduate the opportunity to have access to first class clinical environments, based on real situations and in which they will be able to handle different cases related to the different pathologies that make up Rehabilitation Medicine. In this way, you will be able to keep up to date with the most appropriate treatments for each context, applying the best therapeutic techniques for each situation.



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

The design of this program has been carried out in such a way that the graduate will be able to use all the knowledge acquired in the clinical environment they enter later on. In this way, and through the most absolute and strict discipline, you will work on perfecting your skills during your practical stay in order to offer, afterwards, the best and most updated service related to Rehabilitation Medicine.

#### **5. Expanding the Boundaries of Knowledge**

The possibility that arises with this program to take the practical stay in centers of international importance allows the graduate to expand the frontiers of his knowledge towards the practice in other countries, allowing him, in addition, to catch up with the clinical guidelines that are marking the day to day in prestigious centers in different parts of the world.



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

# 03

## Objectives

The objective of this Internship Program in Electrotherapy in Rehabilitation Medicine is to ensure that the professional updates the diagnostic and therapeutic procedures of the specialty in an exclusively practical way, through a hospital stay designed with clinical and academic rigor, under the guidance of renowned professionals in a hospital center of the highest scientific quality and technological innovation. In this program, the professional will address the main interventions of the specialist, which will allow him to improve and enhance his skills in the medical care of his patients.



### General Objectives

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- Update the knowledge of the Rehabilitation Medicine professional in the field of Electrotherapy
- Promote work strategies based on the integral approach to the patient as a reference model in the achievement of healthcare excellence
- Encourage professional encouragement through continued clinical management







## Specific Objectives

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- ♦ Identify the most up-to-date pain treatments with pharmacological and non-pharmacological methods
- ♦ Know the regulatory mechanisms of nociceptive transmission
- ♦ Master the basics of TENS type current
- ♦ Manage the types and application of electrodes, depending on the importance of the pulse width
- ♦ Detect TENS applications and contraindications
- ♦ Analyze the effects of high and low frequencies
- ♦ Establish the analgesic effects of high- and low-frequency and Brunt-type TENS
- ♦ Know the type and application of variable current electrodes
- ♦ Update knowledge on the physical fundamentals of high frequency
- ♦ Delve into the fundamentals and the different applications of shortwave, microwave and tecartherapy
- ♦ Expand knowledge of the physiological and therapeutic effects of lasers and infrared
- ♦ Study the use of ultrasound therapy in peripheral nerve disorders
- ♦ Identify the benefits of training with electrostimulation
- ♦ Assimilate the indications, recommendations, contraindications and side effects of shock waves
- ♦ Establish the criteria for nerve injury assessment
- ♦ Master the main trends in neurological rehabilitation
- ♦ Apply electrotherapy in cases of motor rehabilitation

# 04 Educational Plan

This program in Electrotherapy in Rehabilitation Medicine will take place in a prestigious center within the sector, characterized not only by its trajectory, but also by the effectiveness of its treatments. In this way, the graduate will have access to 3 weeks of stay, distributed from Monday to Friday in 8-hour shifts and in which he/she will be supervised at all times by an assistant specialist. In this way, you will not only be able to mimic the work environment, but also get to know in detail the place where your profession develops in the current medical context.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare care in areas and conditions that require highly qualified professionals, and are oriented towards specific expertise for practicing the activity, in a safe environment for the patient and with highly professional performance.

It is, therefore, a unique academic opportunity to catch up through practice in a prestigious clinic on the international scene, giving the student the possibility to broaden their skills alongside the best experts in Rehabilitation Medicine and raising their professional talent to the top.

The practical education will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for from Electrotherapy from practice (learning to be and learning to relate).





The procedures described below will form the basis of the practical part of the training, and their completion is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:

Module	Practical Activity
<b>Electrotherapy-based treatments</b>	Control acute or chronic pain in patients through the application of transcutaneous electrical nerve stimulation
	Perform rehabilitation plans with Interferential Electrotherapy to achieve excellent muscle stimulation, increase blood flow or reduce edema in the tissues
	Practice muscle training therapy or electrical muscle stimulation to treat muscle atrophy, contractures and stimulate paralyzed muscles
<b>Other Electrotherapy treatments</b>	Use magnetotherapy as a rehabilitation method in injured patients, paying special attention to its contraindications
	Elaborate rehabilitation plans, using electrotherapy as an adjuvant treatment to dry needling
	Combine transcranial neuromodulation with other therapeutic interventions to optimize patient recovery
<b>High frequency electrotherapy and ultrasound therapy</b>	Use high-frequency electrotherapy devices, assessing contraindications based on the patient's characteristics and the extent of the lesion
	Intervene in tecartherapy processes, setting the parameters to be taken into account in each patient
	Apply ultrasonophoresis in patients who require it, also taking into account its contraindications
<b>Electrostimulation</b>	Diagnose the main neuromuscular injuries that may require electrostimulation
	Practicing electrostimulation in urogynecology

# 05 Where Can I Do the Internship Program?

TECH offers those physicians who wish to specialize and update their knowledge the possibility to undergo high-level training in a prestigious medical center specialized in Electrotherapy in Rehabilitation Medicine. Thus, this intensive activity is a unique opportunity that allows the professional to continue to grow his or her career alongside the best specialists in the sector in various reference clinics.



*Take your internship in a prestigious medical center and learn from the best professionals in the field of Electrotherapy for Rehabilitation Medicine"*





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



Medicine

### ASPAYM Principado de Asturias

Country: Spain City: Asturias

Address: Av. Roma, 4, 33011 Oviedo, Asturias

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
Neurological Physiotherapy  
Neurodegenerative Diseases



Medicine

### Hospital HM Modelo

Country: Spain City: La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
- Anaesthesiology and Resuscitation  
- Palliative Care



Medicine

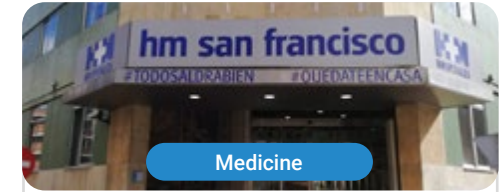
### Hospital Maternidad HM Belén

Country: Spain City: La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
- Update in Assisted Reproduction  
- Hospitals and Health Services Management



Medicine

### Hospital HM San Francisco

Country: Spain City: León

Address: C. Marqueses de San Isidro, 11, 24004, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
Update in Anesthesiology and Resuscitation  
Trauma Nursing



Medicine

### Hospital HM Regla

Country: Spain City: León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
- Update on Psychiatric Treatment in Minor Patients



Medicine

### Hospital HM Nou Delfos

Country: Spain City: Barcelona

Address: Avinguda de Vallcarca, 151, 08023 Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
- Aesthetic Medicine  
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Madrid

Country: Spain City: Madrid

Address: Pl. del Conde del Valle de Súchil, 16, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
- Palliative Care  
- Anaesthesiology and Resuscitation



Medicine

### Hospital HM Torrelodones

Country: Spain City: Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torrelodones, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**  
- Anaesthesiology and Resuscitation  
- Palliative Care



Medicine

### Hospital HM Sanchinarro

Country: Spain  
City: Madrid

Address: Calle de Oña, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital HM Puerta del Sur

Country: Spain  
City: Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Palliative Care
- Clinical Ophthalmology



Medicine

### Policlínico HM Las Tablas

Country: Spain  
City: Madrid

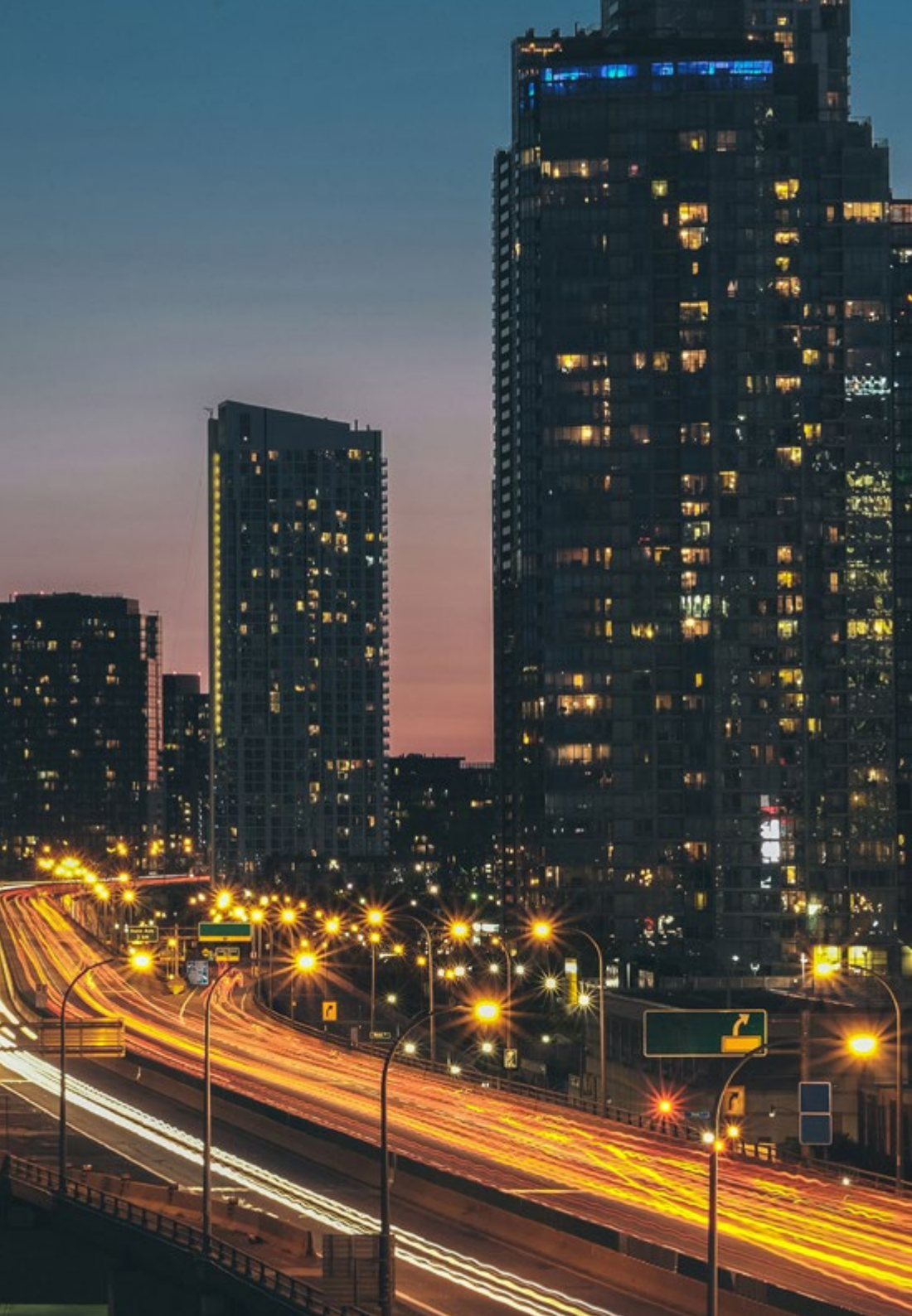
Address: C. de la Sierra de Atapuerca, 5, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Trauma Nursing
- Diagnosis in Physiotherapy





Medicine

### **Policlínico HM Moraleja**

Country	City
Spain	Madrid

Address: P.º de Alcobendas, 10, 28109, Alcobendas, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Rehabilitation Medicine in Acquired Brain Injury Management



Medicine

### **Policlínico HM Virgen del Val**

Country	City
Spain	Madrid

Address: Calle de Zaragoza, 6, 28804, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Diagnosis in Physiotherapy
- Physiotherapy in Early Care



Medicine

### **Policlínico HM Imi Toledo**

Country	City
Spain	Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation

# 06

## General Conditions

### Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees 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 practical training 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 program will allow you to obtain your **Internship Program diploma in Electrotherapy in Rehabilitation Medicine** 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: **Internship Program in Electrotherapy in Rehabilitation Medicine**

Duration: **3 weeks**

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

Accreditation: **5 ECTS**





Internship Program  
Electrotherapy in  
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