

# Internship Program Neurosciences



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Internship Program  
Neurosciences

# Index

01

Introduction

---

p. 4

02

Why Study an Internship Program?

---

p. 6

03

Objectives

---

p. 8

04

Educational Plan

---

p. 12

05

Where Can I Do the Internship Program?

---

p. 14

06

General Conditions

---

p. 18

07

Certificate

---

p. 20

# 01 Introduction

Through continuous research efforts, Neuroscience has significantly expanded its horizons in recent years. In doing so, strategies for diagnosing and treating various brain pathologies and disorders have emerged, based on state-of-the-art technological resources. To efficiently use all these elements, the physician must stay up to date on these developments, but programs on the practical applications of this field are scarce. Therefore, TECH has designed an in-person, intensive, and immersive practical placement, where the physician will acquire high-profile clinical competencies. During 3 weeks, they will work directly at a prestigious scientific institution, gaining access to the most advanced equipment.

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*Enroll in this Internship Program  
and gain a holistic mastery of  
the latest developments in the  
field of Neuroscience”*





With the continuous advancement of science and technology, medicine has delved deep into conditions affecting the brain. Through these investigations, numerous diagnostic procedures and interventional techniques have been developed, greatly benefiting the quality of life for patients. However, the evolution of these tools and treatment methodologies has imposed a continuous need for specialists to prepare for their proper use. At the same time, prevalent academic programs in Neuroscience within the educational market have a high theoretical load and neglect the practical aspects of this discipline.

TECH, aware of this issue, has designed an innovative Internship Program. Through it, the specialist will stay updated on the primary trends currently applied in this healthcare field to address conditions related to reduced neural stimulation. In this mode of study, they will not have to worry about other pedagogical aspects and will fully focus on developing specific skills in the direct care of real patients.

This way, through an in-person and intensive placement, the physician will move to a prestigious medical institution of their choice or in their preference or geographic proximity. There, they will enhance their preparation in the field of Neuroscience under the supervision of an assistant tutor. For 3 weeks, they will handle the most modern technologies in use by that sector and apply different recently discovered therapeutic strategies, accumulating a total of 120 hours of learning. Upon completing this program, the student will acquire the essential professional tools to stand out immediately in a dynamic and demanding healthcare landscape.

# 02

## Why Study an Internship Program?

Currently, educational programs in Neuroscience carry a heavy theoretical load and do not adequately address the practical aspects of these disciplines. This way TECH aims to provide medical professionals with an innovative academic approach that, for 3 weeks, allows them to acquire competencies directly and immersively.

Through the care of real patients, from day one, specialists will efficiently catch up on the clinical management necessary to enhance brain health and other pathologies of neural origin.



*With this novel didactic model, you will experience firsthand the latest developments in the operation and interpretation of tools like the Electrooculogram”*

### 1. Updating from the Latest Technology Available

Throughout this study program, the specialist will operate modern technologies for diagnosing various neurological disorders. Simultaneously, they will explore other innovative stimulation tools, both invasive and non-invasive, to aid in reactivating physiological processes in the brain and prevent psychosomatic diseases.

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

When taking this program, the specialist will have the support of a renowned health team in the field of Neuroscience. Through these professionals, they will acquire key competencies to prevent the development of neurological diseases in their patients and also treat advanced cases. Additionally, an assistant tutor will closely monitor academic progress.

### 3. Entering First-Class Clinical Environments

This Internship Program in Neuroscience will take place in various health institutions where rigorous medical activity is paramount. In these facilities, the specialist will be able to personally handle the most sophisticated equipment for the diagnosis of neurological pathologies. They will also have the opportunity to participate in interventional procedures that are highly useful for brain stimulation.

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

The academic market offers pedagogical programs focused on the theoretical assimilation of the latest developments in Neuroscience. However, this qualification dismisses that characteristic and stands out by providing 100% practical preparation for professionals and the opportunity to apply their competencies first-hand to address various real cases.

#### 5. Expanding the Boundaries of Knowledge

TECH, the world's largest digital academic institution, facilitates specialists' access to hospitals located in different parts of the world, known for their extensive research and clinical expertise in Neuroscience. Therefore, medical professionals can broaden the horizons of their understanding of this subject alongside resources governed by international standards and the vanguard of this health area.



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

# 03 Objectives

The latest developments in the field of Neuroscience and their practical application are covered in this comprehensive program. TECH provides medical professionals with an innovative program, focused on in-person learning and immersive education, through which they can effectively update their professional duties.



## General Objectives

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- Up to date knowledge on Neurosciences in its different fields of application, from the clinical, educational or social area, in order to increase the quality of the professional's praxis in your performance
- To introduce students to the vast world of neurosciences from a practical perspective, so that they learn about the different disciplines involved in the study of the brain in relation to human behavior and its possibilities
- Learn the tools used in neuroscience research and practice
- Enable the development of skills and abilities by encouraging continuous training and research







## Specific Objectives

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- ◆ Understand the types of neurons
- ◆ Identify brain hemispheres and lobes
- ◆ Differentiate between localizationism and brain functionalism
- ◆ Discover the undifferentiated neurons
- ◆ Learn programmed neural death
- ◆ Recognise interneuronal electrical communication
- ◆ Determine the role of myelin in neurons
- ◆ Understanding interneuronal chemical communication
- ◆ Learn the peculiarities of the human brain
- ◆ Unravel the left brain
- ◆ Explore the white matter
- ◆ Recognize gender differences at the neural level
- ◆ Classify hemispheric functions
- ◆ Discover the new localizationism
- ◆ Understand invasive techniques
- ◆ Recognize non-invasive techniques
- ◆ Assess the role of emotional intelligence
- ◆ Know the Mayer and Salovey model.
- ◆ Differentiate between emotional maturation and emotional intelligence

- Discover emotional relearning
- Observe the relationship between intelligence and social skills
- Discover what The Papez Circuit is
- Exploring the limbic brain
- Analyze the amygdala and positive emotion
- Understand the function of the amygdala and negative emotion
- Recognize the intensity of emotion
- Determine the affective value of emotion
- Classify neurohormones and their functions
- Differentiate between age and neuronal plasticity
- Discover neuronal development
- Verify the connection between intelligence and creativity
- Analyze academic intelligence
- Discover the cognitive processes
- Observe the connection between the brain and cognition
- Discover the cognitive processes
- Differentiate between gross vs. fine motor skills.
- Approach the experience at the neural level
- Establishing learning at the neuron level
- Observe the effectiveness of repetitive reinforcement
- Discover neuromuscular control
- Exploring the neuronal insigne



- Verify metacognitive development
- Analyze the role of feelings
- Understand the neural basis of computational errors
- Knowing how the mathematical brain develops
- Further understanding of the genetics of leadership
- Know the effects of successes and failures at the neural level
- Apply the different optimization strategies of Neuroleadership
- Study in depth the positive and negative emotions generated in politics
- Further study of the concept of Neuroethics
- Learn more about Neurocriminology and its implication in psychopathic personalities

“

*Thanks to this qualification, you will fully master non-invasive techniques for brain recovery such as electrical and magnetic stimulation”*

# 04

## Educational Plan

This Internship Program in Neuroscience consists of 8-hour sessions, from Monday to Friday, for a total of 3 intensive weeks. During this period, the specialist will engage in an in-person and intensive experience at a top-level hospital. This health institution is known for having a prestigious medical team, whose members stay updated on the latest trends in this scientific field.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare 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 a high level of professional performance.

In that way, TECH provides the most personalized and sharpened guidance for professionals looking to enhance their practical skills in Neuroscience. All educational progress will be supervised by an associate tutor. This expert will be responsible for clarifying doubts and addressing relevant concepts, immersing the specialist in various work dynamics that will be essential for updating their practice or assistance unit.

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 medicine practice (learning to be and learning to relate).





The procedures described below will form the basis of the practical part of the internship, and their implementation 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>Innovative Diagnostic Techniques in the Field of Neuroscience</b>	Implement Positron Emission Tomography to assess the brain's physiological health
	Indicate the performing of Electroencephalograms to evaluate brain electrical activity
	Interpret Electrooculography to differentiate sleep phases through eye movement
<b>Non-Invasive Brain Stimulation Methods</b>	Use Transcranial Electrical Stimulation techniques to induce changes in the stimulated brain region
	Address depression through Transcranial Magnetic Stimulation (TMS) of nerve cells in the brain
	Promote peripheral nerve stimulation to contribute to the neurorehabilitation of patients with paralysis and other brain-related conditions
<b>Invasive Brain Stimulation Methods</b>	Apply the invasive method of spinal cord stimulation to block nerve impulses in the spinal column using a mild electrical discharge
	Implant electrodes within the brain as part of Deep Brain Stimulation to regulate abnormal impulses
	Modulate nociceptive information to provide analgesia for chronic pain through intraspinal and intracerebroventricular drug delivery
	Enhance recovery and healing of brain tissue injuries using Radiofrequency devices
<b>Innovative Strategies in Neuroeducation, Neurolinguistics, and other branches of Neuroscience</b>	Treat patients with learning difficulties or dyslexia using the most advanced strategies for managing brain plasticity
	Activate Neurolinguistic reprogramming through modal operators of necessity and possibility
	Reduce negative emotions such as anxiety or distress in a stressful situation through neurolinguistic anchoring
	Assess psychotic behaviors based on the foundations of Neurocriminology

# 05 Where Can I Do the Internship Program?

In this program, graduates will have access to renowned hospital centers located in different cities and countries around the world. This unique learning opportunity provides mastery of international standards related to Neuroscience applications. The selected locations for this Internship Program are equipped with the best teams of experts and utilize the most cutting-edge technologies in this professional field.



*Enroll at TECH and you will complete a practical Internship with excellence and rigor, in a 100% in-person and immersive manner”*





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



Medicine

### Hospital HM Modelo

Country: Spain City: La Coruña

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

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital HM Rosaleda

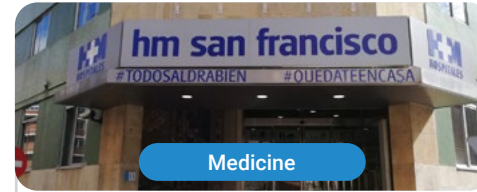
Country: Spain City: La Coruña

Management: Rúa de Santiago León de Caracas, 1, 15701, Santiago de Compostela, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



Medicine

### Hospital HM San Francisco

Country: Spain City: León

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

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Nursing in the Traumatology Department



Medicine

### Hospital HM Regla

Country: Spain City: León

Management: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Update on Psychiatric Treatment in Minor Patients



Medicine

### Hospital HM Madrid

Country: Spain City: Madrid

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

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Palliative Care
- Anaesthesiology and Resuscitation



Medicine

### Hospital HM Montepríncipe

Country: Spain City: Madrid

Management: Av. de Montepríncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Palliative Care
- Aesthetic Medicine



Medicine

### Hospital HM Torrelodones

Country: Spain City: Madrid

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

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital HM Nuevo Belén

Country: Spain City: Madrid

Management: Calle José Silva, 7, 28043, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- General and Digestive System Surgery
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Puerta del Sur

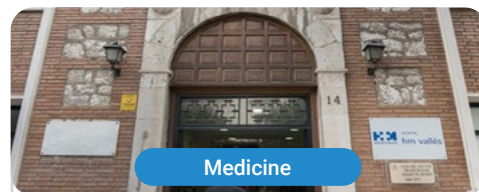
Country: Spain City: Madrid

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

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Palliative Care
- Clinical Ophthalmology



Medicine

### Hospital HM Vallés

Country: Spain City: Madrid

Management: Calle Santiago, 14, 28801, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Gynecologic Oncology
- Clinical Ophthalmology



Medicine

### HM CINAC - Centro Integral de Neurociencias

Country: Spain City: Madrid

Management: Avenida Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Neurological Physiotherapy



Medicine

### HM CINAC Barcelona

Country: Spain City: Barcelona

Management: Avenida de Vallcarca, 151, 08023, Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Neurodegenerative Diseases
- Neurology Nursing



Medicine

### Policlínico HM Arapiles

Country: Spain City: Madrid

Management: C. de Arapiles, 8, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Pediatric Dentistry



Medicine

### Policlínico HM Cruz Verde

Country: Spain City: Madrid

Management: Plaza de la Cruz Verde, 1-3, 28807, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Advanced Clinical Podiatry
- Optical Technologies and Clinical Optometry



Medicine

### Policlínico HM Distrito Telefónica

Country: Spain City: Madrid

Management: Ronda de la Comunicación, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Optical Technologies and Clinical Optometry
- General and Digestive System Surgery



Medicine

### Policlínico HM Matogrande

Country: Spain City: La Coruña

Management: R. Enrique Mariñas Romero, 32G, 2º, 15009, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Sport Physiotherapy
- Neurodegenerative Diseases





Medicine

### Policlínico HM Rosaleda Lalín

Country City  
Spain Pontevedra

Management:  
Av. Buenos Aires, 102, 36500,  
Lalín, Pontevedra

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**Related internship programs:**

- Advances in Hematology and Hemotherapy
- Neurological Physiotherapy



Medicine

### Policlínico HM Imi Toledo

Country City  
Spain Toledo

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

Network of private clinics, hospitals and specialized centers distributed throughout the Spanish territory

**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, five 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 do 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 professionals 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 **Internship Program Certificate in Neuroscience** contains the most comprehensive and up-to-date program in the professional and academic landscape.

After the student has passed the assessments, they will receive their corresponding Internship Program certificate issued by TECH Technological University via tracked delivery\*.

The diploma issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Neuroscience**

Duration: **3 weeks**

Course Modality: **Monday to Friday, 8-hour consecutive shifts**

Total Hours: **120 h. of professional practice**



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