

# Internship Program

## Neurodegenerative Diseases



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Internship Program  
Neurodegenerative Diseases

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# 01 Introduction

One of today's major medical concerns is Neurodegenerative Diseases. These are complex pathologies with difficult diagnoses and require a series of specific competencies to be able to face all the challenges they pose. For this reason, physicians who wish to approach these types of patients with all the guarantees and update their knowledge have a great opportunity with this TECH program. This program will allow them to carry out an on-site stay in a prestigious center where they will learn the latest techniques and treatments in the field, from a 100% practical and real scenario in which they will come into contact with patients in this area, while being guided by leading specialists in the discipline.

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*TECH offers you this exclusive program of practical training so that you can update your daily clinical practice in Neurodegenerative Diseases in only 3 weeks, in a prestigious health center”*





According to the WHO, Alzheimer's disease is one of the 10 leading causes of disability, dependence and mortality worldwide. For some experts, it has even been classified as a structural epidemic of the 21st century. This is among the most common neurodegenerative diseases and is so relevant because each year about 10 million new cases can be detected worldwide.

As this is therefore a very delicate clinical field, it is important to obtain the latest and most useful skills that allow physicians to differentiate diseases from symptoms, thus improving their diagnostic tools and, therefore, the quality of care for their patients. So, by being in direct contact with real cases, they will be able to learn first-hand about the most innovative and effective treatments in this field, increasing their prestige in the healthcare field.

With this Internship Program in Neurodegenerative Diseases, physicians will be able to observe cases of patients suffering from these types of pathologies, always accompanied by other physicians specialized in this field. In this way, this stay is not only a practical and intensive learning process, but also places the professional in a real scenario, which will serve them later in their work.

This program is developed over 3 weeks in which students will follow a schedule of 8 hours a day, from Monday to Friday, so that their experience in the Internship Program will be very close to the work environment, which will enhance their skills by being able to develop fluently and continuously in an environment similar to that of their work.

# 02

## Why Study an Internship Program?

Medical professionals are recognized for their efficient clinical practice and cutting-edge knowledge to provide services that improve the quality of life of their patients. To this end, constant training and updating on scientific and technological advances in their area of specialization is essential. That is why TECH has designed this practical academic space, unique in the current educational market, which will allow the specialist to enter a real clinical environment where they can put into practice the latest procedures and techniques for the treatment of Neurodegenerative Diseases. Over the course of 3 weeks, you will be integrated into a multidisciplinary work team, where you will verify first-hand and practically the latest scientific findings in the field. This intensive hands-on learning process allows the specialist to be trained with the best perspective within a state-of-the-art clinical center, where they will obtain useful learning adapted to the real needs of the population.



*TECH offers you the opportunity to enter into real clinical environments and maximum demand to delve, with the help of the best specialists, into the latest advances in Neurodegenerative Diseases"*

### 1. Updating from the latest technology available

Thanks to the advance of new technologies, the early detection of certain neurodegenerative diseases has been facilitated, and even the cell death of dopaminergic neurons in Parkinson's patients has been reduced. For this reason, and with the aim of bringing the specialist closer to this technology and to the most outstanding techniques, TECH presents this Internship Program with which the professional will enter a cutting-edge clinical environment, accessing state-of-the-art technology in the field of Neurodegenerative Diseases.

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

The experience of the large team of specialists who will accompany you during this practical period will provide an unprecedented guarantee of updating. You will have an assigned tutor who will be your guide throughout the learning process, observing patients and real cases of Neurodegenerative Diseases, which will allow you to add the most advanced practical knowledge to your academic experience in this subject.

### 3. Entering First-Class Clinical Environments

TECH has carefully selected the most renowned centers for its Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment specialized in the area of Neurodegenerative Diseases. Over the course of 3 weeks, the physician will gain valuable experience for the rest of his or her professional career.



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

TECH wanted to offer a unique and exclusive program with an eminently practical approach where the professional can put into value what they have learned during their theoretical studies. The dynamism offered by applying the techniques studied in real clinical cases provides a state-of-the-art professional background. The student will face an internship with the best specialists in the treatment of Neurodegenerative Diseases, where they will apply the techniques and procedures acquired immediately.

#### 5. Expanding the Boundaries of Knowledge

TECH offers the possibility to carry out this Internship Program in the main clinical centers of the world. This way, the specialist will be able to expand their frontiers and catch up with the best professionals, who practice in first class centers and in different continents. A unique opportunity that only TECH, puts at your disposal.



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

# 03

## Objectives

The objective of this eminently functional program is to update the latest diagnostic and therapeutic procedures in an exclusively practical way. Thanks to an intensive period of practical study, designed with clinical and academic rigor in a hospital center of the highest scientific quality and technological innovation. Always under the guidance of renowned professionals who will allow you to learn the most avant-garde and effective methods.



### General Objectives

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- ♦ Master the most recent advances in the treatment of Neurodegenerative Diseases
- ♦ Interpret the most common clinical cases of Neurodegenerative Diseases in the population with the help of a team of experts
- ♦ Manage the most effective methods of care for patients with Neurodegenerative Diseases and their families







## Specific Objectives

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- ◆ Acquire knowledge, competencies and skills in the area of Neurodegenerative Diseases
- ◆ Be updated on the latest advances in this area of intervention
- ◆ Learn about the latest findings in genetic and proteomic alterations in these diseases.
- ◆ Master the advances in translational neurology that have favored research in this type of pathology
- ◆ Acquire the appropriate and most effective tools to know how to recognize the clinic
- ◆ Interpret the findings of complementary tests and appropriately treat patients with Neurodegenerative Diseases



*If you are looking for a way to keep up to date with new advances in this type of diseases, don't wait any longer, this is the program you need. Enroll now and achieve all your professional goals"*

# 04

## Educational Plan

This program is based on a 3-week stay in a prestigious center, from Monday to Friday, with 8 consecutive hours of practical activity with an assistant specialist. During this period, the physician will have access to real patients together with leading specialists in the field of Neurodegenerative Diseases, so that they can learn first-hand the latest techniques and treatments in this area.

In this completely practical training proposal, the activities are aimed at developing and perfecting the competencies necessary for the provision of health care in areas and conditions that require a high level of qualification, and are oriented towards specific training for the exercise of the activity, in an environment of safety for the patient and high professional performance.

In this way, having access to a stay of this type is a unique opportunity to be able to update knowledge in Neurodegenerative Diseases, as well as to be in contact with great experts in this field and with patients who require specific treatments.

During the development of this internship, medical professionals will be able to perform a minimum number of clinical activities in services dedicated to neurodegenerative pathologies, which will allow them to master a series of specific competencies in this field, such as the evaluation of diseases like frontotemporal dementias, Alzheimer's disease or epilepsy within these pathologies.

The practical teaching 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 to facilitate teamwork and multidisciplinary integration as transversal competencies for the praxis of specialized medicine in Neurodegenerative Diseases (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:



*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
<b>Etiology and Biopathology of Neurodegenerative Diseases</b>	Perform examination of mechanisms of cell loss in Neurodegenerative Diseases.
	Applying biomarkers for the detection of neurodegenerative dementias.
	Perform the Progressive Subcortical Gliosis test.
	Address the analysis, through specific studies, of sleep disorders in Neurodegenerative Diseases.
<b>Assessment and approach to neurodegenerative motor neuron diseases and hereditary spastic paraparesis</b>	Diagnose and assess upper motor neuron diseases.
	Perform genetic testing for chronic spinal muscular atrophy and other spinal and bulbar muscular atrophies.
	Diagnose Spinal Muscular Atrophy by Electromyography, muscle biopsies and nerve conduction studies.
	Diagnose Amyotrophic Lateral Sclerosis and establish a care plan for the patient with the disease.
	Perform post-polio syndrome and ALS-Parkinson's-dementia complex analysis.
<b>Assessment of neurodegenerative Ataxias</b>	Perform the autosomal recessive ataxias and episodic ataxias test.
	Evaluate cases of Heredoataxias associated with genetic alterations of metabolism.
	Conduct specific analysis of Friedreich's Ataxia, secondary ataxias with mitochondrial DNA mutations.
	Perform fragile x syndrome, tremor and ataxia testing.
	Identify in the patient the secondary neurological alterations associated with Vitamin E deficiency.
<b>Diagnostic Methods of Neurodegenerative Diseases</b>	Perform genetic analysis to identify the patient's neurodegenerative disease.
	Apply neuroimaging analysis to diagnose and monitor neurodegenerative dementias.
	Perform neuroimaging examination for diagnosis and follow-up in neurodegenerative parkinsonisms.
	Perform positron emission tomography for monitoring neurodegenerative disorders.
	Perform biopsies in the approach to Neurodegenerative Diseases.
<b>Assessment of neurodegenerative disorders caused by prions and other disorders</b>	Identification of symptoms and indicators in patients with variant Creutzfeldt-Jakob disease (mad cow disease) and sporadic Creutzfeldt-Jakob disease.
	Diagnose and evaluate patients with protease-sensitive Prionopathy, Kuru disease, Gerstmann-Sträussler-Scheinker disease, genetic and iatrogenic Creutzfeldt-Jakob disease.
	Assess other disorders such as hereditary amyloidosis and neurodegeneration, familial neuroserpin inclusion body encephalopathy, hereditary ferritinopathies, neurodegenerative disease due to copper metabolism disorder, cadasil, amyloid angiopathy, neurodegenerative dystonia and neurodegeneration in multiple sclerosis.

# 05 Where Can I Do the Internship Program?

TECH offers specialized and high-level centers where you can spend a practical stay in order to update your knowledge and skills in the field of Neurodegenerative Diseases. Thus, this program is a great opportunity for all those physicians who wish to learn the latest developments in diagnosis and treatment of this type of pathology, since access to a reference institution in this area in order to develop new skills is not available to everyone.



*Get in touch with prestigious professionals and real patients to update your knowledge in Neurodegenerative Diseases"*





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



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### ASPAYM Principado de Asturias

Country	City
Spain	Asturias

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

National federation dedicated to the physical and mental promotion of patients.

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



Medicine.

### Hospital HM Modelo

Country	City
Spain	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	City
Spain	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.

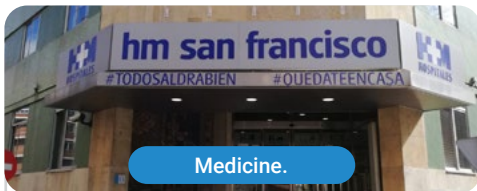
### Hospital HM Rosaleda

Country	City
Spain	La Coruña

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

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

**Related internship programs:**  
 - Hair Transplantation  
 - Orthodontics and Dentofacial Orthopedics



Medicine.

### Hospital HM San Francisco

Country	City
Spain	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	City
Spain	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	City
Spain	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	City
Spain	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 Montepríncipe

Country	City
Spain	Madrid

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

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

**Related internship programs:**

- Palliative Care
- Aesthetic Medicine



Medicine.

### Hospital HM Torrelodones

Country	City
Spain	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	City
Spain	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 Nuevo Belén

Country	City
Spain	Madrid

Address : Calle José Silva, 7, 28043, Madrid

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

**Related internship programs:**

- General and Digestive System Surgery
- Clinical Nutrition in Medicine



Medicine.

### Hospital HM Puerta del Sur

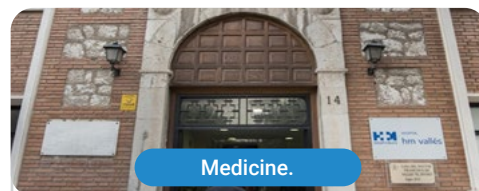
Country	City
Spain	Madrid

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.

### Hospital HM Vallés

Country	City
Spain	Madrid

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

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

**Related internship programs:**

- Gynecologic Oncology
- Clinical Ophthalmology



Medicine.

### HM CINAC - Centro Integral de Neurociencias

Country	City
Spain	Madrid

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

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

**Related internship programs:**

- Neurological Physiotherapy



Medicine.

### HM CINAC Barcelona

Country	City
Spain	Barcelona

Address : Avenida de Vallcarca, 151, 08023, Barcelona

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

**Related internship programs:**

- Neurodegenerative Diseases
- Neurology Nursing



Medicine.

### Policlínico HM Arapiles

Country	City
Spain	Madrid

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

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

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Pediatric Dentistry



Medicine.

### Policlínico HM Cruz Verde

Country	City
Spain	Madrid

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

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

**Related internship programs:**

- Advanced Clinical Podiatry
- Optical Technologies and Clinical Optometry



Medicine.

### Policlínico HM Distrito Telefónica

Country	City
Spain	Madrid

Address : Ronda de la Comunicación, 28050, Madrid

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

**Related internship programs:**

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



Medicine.

### Policlínico HM Matogrande

Country	City
Spain	La Coruña

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

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

**Related internship programs:**

- Sports Physiotherapy
- Neurodegenerative Diseases



Medicine.

### Policlínico HM Rosaleda Lalín

Country	City
Spain	Pontevedra

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

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

**Related internship programs:**

- Advances in Hematology and Hemotherapy
- Neurological Physiotherapy



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 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 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 student 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 Studies** Some centers may require a certificate of previous studies 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 lodging, transportation to the city where the internship takes place, visas or any other benefits not described.

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 in Neurodegenerative Diseases** 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 state the score obtained in the test.

Program: **Internship Program in Neurodegenerative Diseases**

Duration: **3 weeks**

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

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



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Internship Program  
Neurodegenerative Diseases

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## Neurodegenerative Diseases



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