

# Internship Program

## Update on Diagnostic and Therapeutic Techniques in Radiology





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**Internship Program**  
Update on Diagnostic and  
Therapeutic Techniques  
in Radiology

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# 01 Introduction

Minimally invasive radiological techniques are an opportunity to reduce the risks of surgery and increase the speed of patient rehabilitation. These possibilities make the medical radiological field a fundamental subspecialty in the algorithm of diagnoses and therapies of sick people. For this reason, TECH makes available to specialists who wish to delve deeper and update their knowledge in radiology, a program in a real scenario 100% real.

In this environment, the physician will be able to apply their knowledge in neuroradiology, gynecology, venous and lymphatic interventionism, as well as vascular therapies and neurointerventionism, among other issues. All this by applying the latest advances in clinical research, together with an attending expert from the hospital where the study will be carried out.

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





The numerous advantages offered by radiological tools in medicine also have an impact on the management of hospital centers. Thanks to their slight intervention in patients, they can be admitted to the clinical center and return home once the test has been successfully performed. These are novel and sophisticated techniques aimed at improving the quality of life of patients and achieving a longer-lived society. Given its importance in the field of health care, it requires professionals who are up-to-date with scientific advances and know how to apply them avidly.

TECH offers an Internship Program in prestigious hospitals for specialists to develop clinical techniques in the real scenario of action with heterogeneous cases of cranial pathology, pulmonary diseases, evaluation of musculoskeletal problems, as well as the application of imaging techniques in gynecology, among others. This internship will consist of 3 weeks of learning, integrating the latest technological tools. In addition, the specialists will have the support and follow-up of professionals who belong to the team of experts of the hospital centers.

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*Through this program you will be able to do an internship in a prestigious hospital that incorporates the latest technology in cavography”*

# 02

## Why Study an Internship Program?

Radiology is one of the most important areas of any hospital center, as other units depend on it to make accurate and precise diagnoses. Technology is one of the great allies in this field, being big data, Artificial Intelligence or new radiological equipment an important point of update for specialists. For this reason TECH has created the present program, which directly places the student in a widely advanced working team in the radiological field, accessing to the most rigorous and important practical aspects and approaches currently available.



*Take advantage of a unique qualification, which allows you to get involved for 3 weeks with a team of experts in Diagnostic and Therapeutic Techniques in Radiology”*

### 1. Updating from the latest technology available

Thanks to the eminently practical nature of the program, the specialist will have access to the most advanced radiological equipment, being able to verify the impact of the latest developments in clinical practice. In this way, a complete update on the latest technology available in the radiological area is guaranteed.

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

Thanks to TECH's thoroughness in selecting clinical centers, the specialist will benefit from the expert knowledge of a group of highly qualified professionals. Their day-to-day work in a first-class clinical environment will allow them to share with the student the most accurate working methodology.

### 3. Entering First-Class Clinical Environments

It is precisely the quality of the clinical environment that is fundamental when it comes to taking this Internship Program. The prestige and renown of the centers of this program guarantee that the academic experience of the specialist will be demanding, but at the same time rewarding, since they will be up-to-date in the best possible way.



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

And all the knowledge acquired by the student can be applied in their own work methodology from day one. TECH's teaching methodology, together with the quality of the center's care and the extensive experience of the radiology experts, provide a plus of quality and safety in the specialist's updating process.

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

All this in order to expand the frontiers of knowledge towards the latest Radiology, including the most current practice regarding Diagnostic and Therapeutic Techniques. This is a unique opportunity in the academic market to test, in situ, the impact of the most relevant technologies in this necessary clinical field.



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

# 03 Objectives

The objective of the internship is focused on the update of radiological therapies in thorax and abdomen, in the study of the skull base, as well as the assessment of dementia and neurodegenerative diseases and the treatment of lower and upper gastrointestinal bleeding. This is a practical program that aims to implement the protocols of medical patient management in Diagnostic and Therapeutic Radiology. In addition, the physician will have at their disposal all the clinical material so that they can put into practice their previous knowledge with real patients during their stay in the hospital.



## General Objectives

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- Cover the impact of new technologies in Radiology
- Check first hand the most important Diagnostic and Therapeutic Techniques
- Adapt to the organization and day-to-day work of a team of highly qualified radiologists, in a first-class clinical environment







## Specific Objectives

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- ◆ Know the latest contributions to radiological diagnosis and treatment which has a positive impact in curing and improving the quality of life of your patients
- ◆ Increase the degree of knowledge in diagnostic and therapeutic radiology in the subspecialties of Neurology, Sensory Organs, Pneumology, Cardiology, Gastroenterology, Urology, Traumatology, Women's Pathology and Angiology
- ◆ Implement the protocols for medical management of the patient in Diagnostic and Therapeutic Radiology
- ◆ Recognize the new materials used in interventional radiology



*This practical program will encourage radiologists practical skills and help them grow personally and professionally”*

# 04

## Educational Plan

This Internship Program in Update on Diagnostic and Therapeutic Techniques in Radiology is developed over 3 weeks of exhaustive practices that will introduce the specialists to their field of action. The 8-hour consecutive shifts are scheduled from Monday to Friday with the support of an attending radiologist in prestigious clinics. In this way, the participant of the Internship Program will be able to perform field work in situ, with real patients and with the endorsement of the tutors to carry out an appropriate intervention in each case.

In this completely practical internship program, the activities are aimed at developing and perfecting the skills necessary to provide radiological services and are oriented towards specific expertise for practicing the activity. All this, in a rigorous work environment that will promote quality medical care processes, considering the role of the physician as an integrator of technological advances in radiodiagnosis in the practice of other specialties.

This is a unique opportunity to delve into the role of radiology in percutaneous treatments, which have also evolved rapidly in recent years. This internship program will expand the specialist's scenarios of action and will provide them with the confidence to apply the therapies on patients in situ. Only in this way will they be able to keep up-to-date and offer the best care in radiological diagnostic and therapeutic procedures.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of knowledge (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 the practice of radiotherapy (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the training, 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:



*Get qualified thanks to an institution that offers you practical knowledge and a human team capable of developing you to the maximum in your clinical practice"*



Module	Practical Activity
Radiodiagnostics	Manage the latest technology in Ultrasound and Computed Tomography
	Make use of high quality Magnetic Resonance Imaging equipment
	Know the organization of combined radiological diagnostics in a modern Radiology Unit
	Perform a DIDD (Diffuse Interstitial Pulmonary Interstitial Diseases) examination
	Assess the diagnosis of COPD in a patient
	Analyze thoracic trauma, mediastinal tumors or pancreatic and pulmonary pathologies
Interventional Radiology	Perform cystography
	Performing abscess drainage
	Address aneurysm embolization
	Placing inferior vena cava filter and dialysis catheters and their replacements
	Perform intracerebral AVM Treatment
Radiodiagnosis by Organs and Systems	Know the available technology in defecography
	Practice FNA and mammary BAG
	Apply imaging techniques in ovarian cancer
	Perform aneurysm treatment and diabetic foot treatment
	Perform musculotendinous lesion examination
Minimally Invasive Techniques in Interventional Radiology	Perform fine needle punctures of arteries or veins, closing the area by hemostasis with closure devices or manual compression
	Assess the use of drainage of collections in patients with abscesses in various areas
	Use TIPS placement in patients with chronic liver disease, refractory ascites or secondary gastrointestinal bleeding
	Place gastrostomies in patients with esophageal or ENT tumors
	Avoid the risk of PTE in patients with venous thrombosis of the lower limbs by placing inferior vena cava filters
Modern Technology in the Radiodiagnostic Area	Perform artery scans and complex studies using multislice CT
	Review the use of high-field closed MRI in patients with obesity or claustrophobia
	Perform stereotactic interventions with digital mammography with tomosynthesis
	Employ low-radiation 3D vertical radiological systems
	Get involved in the use of different ultrasound equipment, portable echocardiography, gynecological ultrasound and orthopantomograph

# 05 Where Can I Do the Internship Program?

TECH has planned a 3-week hospital internship which guarantees practical education for medical graduates. Thanks to the collaboration of a prestigious hospital center, the radiologist will be able to expand their field of action and respond to the diversity of interventions using X-rays, ultrasound, magnetic fields, among others. All this with the support and guidance of experts working in the radiology sector.



*Delve into the multiple advantages of phlebography of the upper and lower limbs in a recognized clinic, where you will apply the latest technological tools"*





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



Medicine

### Clínica Gaias Vigo

Country	City
Spain	Pontevedra

Address: Calle Ballesta 8, 36202, Vigo

Multidisciplinary medical center with assistance in more than a dozen specialties

**Related internship programs:**

- Update on Diagnostic and Therapeutic Techniques in Radiology



Medicine

### Clínica Gaias Coruña

Country	City
Spain	La Coruña

Address: Calle Calvo Sotelo 17, 15004 A Coruña

Multidisciplinary medical center with assistance in more than a dozen specialties

**Related internship programs:**

- Nursing in the Gynecology Service



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

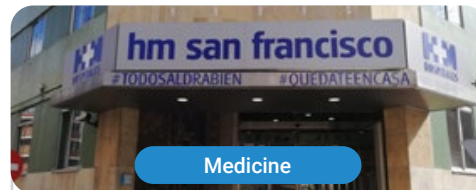
Country	City
Spain	La Coruña

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

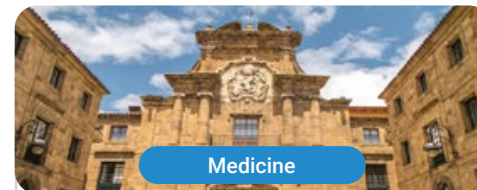
Country	City
Spain	León

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 Torreldones

Country	City
Spain	Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torreldones, 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

### 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 Gabinete Velázquez

Country	City
Spain	Madrid

Address: C. de Jorge Juan, 19, 1º 28001, 28001, Madrid

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

**Related internship programs:**

- Clinical Nutrition in Medicine
- Aesthetic Plastic Surgery



Medicine

### Policlínico HM Las Tablas

Country	City
Spain	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 Sanchinarro

Country	City
Spain	Madrid

Address: Av. de Manoteras, 10, 28050, Madrid

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

**Related internship programs:**

- Gynecological Care for Midwives
- Nursing in the Digestive Tract Department



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. This 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 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. NOT INCLUDED:** The Internship Program shall not include any element not described in these 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 in Update on Diagnostic and Therapeutic Techniques in Radiology** contains the most complete 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 diploma issued by TECH Technological University via tracked delivery\*.

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

Title: **Internship Program in Update on Diagnostic and Therapeutic Techniques in Radiology**

Duration: **3 weeks**

Attendance: **Monday to Friday, shifts of 8 consecutive hours**

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



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