

Internship Program

Musculoskeletal Ultrasound in Rehabilitation Medicine





tech global
university

Internship Program
Musculoskeletal Ultrasound
in Rehabilitation Medicine

Index

01

Introduction

p. 4

02

Why Study an
Internship Program?

p. 6

03

Objectives

p. 8

04

Educational Plan

p. 10

05

Where Can I Do the
Internship Program?

p. 12

06

General Conditions

p. 16

07

Certificate

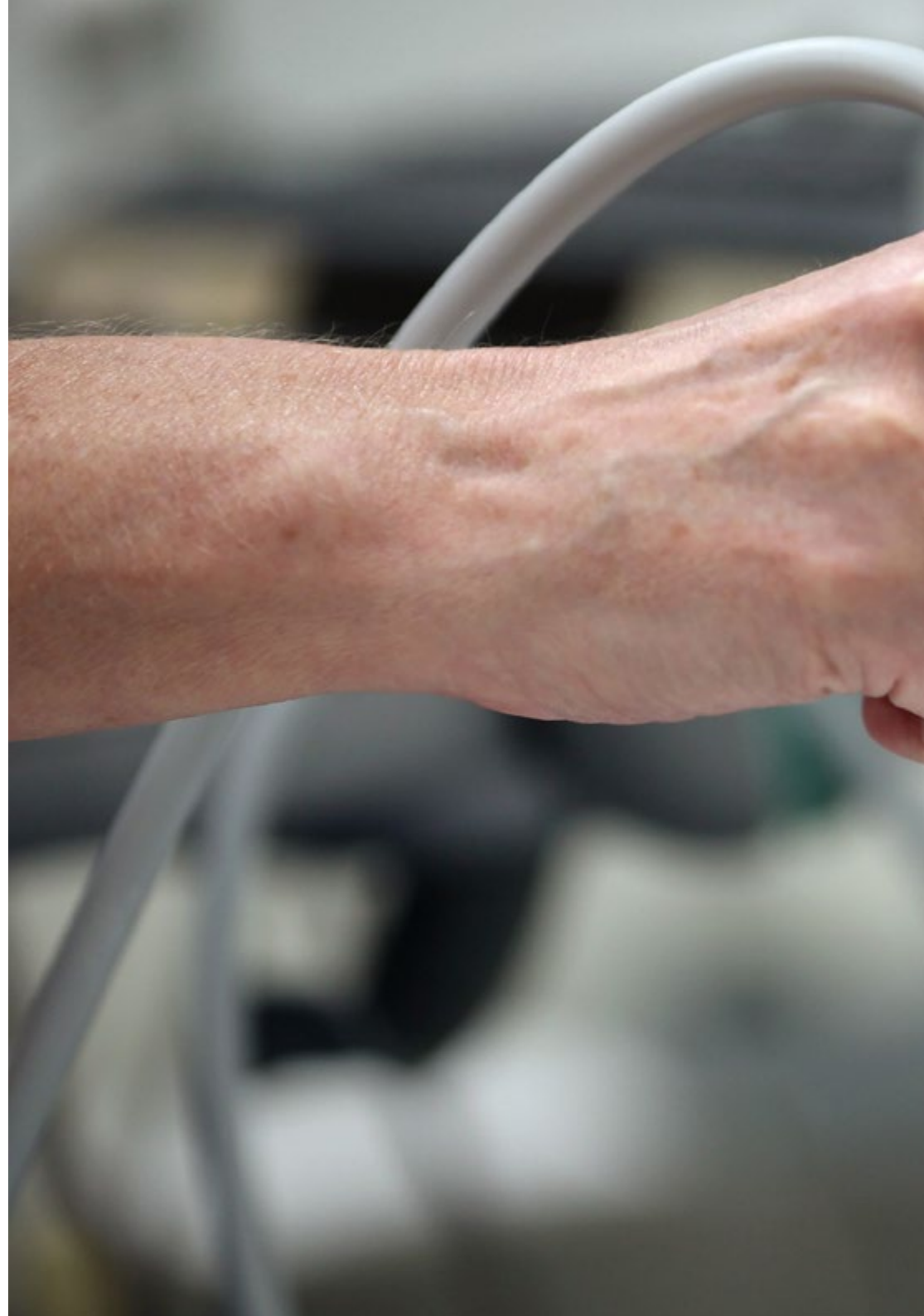
p. 18

01 Introduction

The use of ultrasound by medical professionals has made it possible to achieve greater efficacy in many treatments and to increase the safety of invasive treatments in rehabilitation medicine. In view of the continuous advances in the devices and techniques used, continuous updating is undoubtedly required. This is why TECH has designed this program that offers the graduate a practical stay in a prestigious hospital center. An ideal scenario, where you can enhance your skills and abilities with the help of specialized professionals with extensive experience in musculoskeletal ultrasound used in rehabilitation medicine.



Incorporate the latest musculoskeletal ultrasound techniques into your daily practice, thanks to this Internship Program offered by TECH"





Currently there is a predominant use of musculoskeletal ultrasound in Rehabilitation Medicine for the diagnosis of soft tissue and joint injuries. This is due to progress in equipment, image quality and non-invasive scanning techniques. This has led professionals in recent years to require updating their knowledge in this area.

In view of this reality, TECH has designed an Internship Program that provides the specialist with a unique experience in a clinical center that is a reference in the use of this technique and with the most innovative equipment. In this scenario, the professional will be tutored by an expert in this field, who will guide them, during the 3 intensive weeks of practice, in the techniques and procedures currently used in Musculoskeletal Ultrasound in Rehabilitation Medicine.

A unique stay in the present pedagogical panorama, which provides the professional with the most recent, exhaustive and scientifically rigorous information. All this will lead you to be able to integrate it into your current daily performance, either in your current center or in any other high-level healthcare space.



Enjoy an intensive 3-week stay in Barcelona and update yourself on the latest clinical procedures to grow professionally"

02

Why Study an Internship Program?

New technologies have marked a turning point in the equipment used in medicine. In Musculoskeletal Ultrasound these advances are notorious, allowing a better diagnosis, evaluation and follow-up of injuries. In view of this reality, professionals need to update their knowledge, which will be very useful in their daily work. In this line, TECH has designed a unique and disruptive academic product in the current pedagogical panorama, which will allow the specialist to enter a real clinical environment where to put into practice the latest procedures and techniques in the field of Internship Program in Musculoskeletal Ultrasound in Rehabilitation Medicine. Thus, the specialist will be integrated into an excellent work team, which will take them to learn, in only 3 weeks, the most precise techniques and the most innovative equipment.



TECH provides you with a 100% practical and useful knowledge for your daily practice in the area of Musculoskeletal Ultrasound in Rehabilitation Medicine"

1. Updating from the latest technology available

The area of Musculoskeletal Ultrasound in Rehabilitation Medicine has undergone important changes in recent years due to technological advances, which allow to obtain a higher quality ultrasound image production and to improve ultrasound scanners. For this reason, and with the aim of bringing the specialist closer to this technology, 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 Musculoskeletal Ultrasound.

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

During this 3-week stay, the medical professional will be surrounded by a team of specialists who will guide them at all times. This is a first-class endorsement and a guarantee of intensive knowledge updating. With a specifically designated tutor, the graduate will be able to see real patients in an excellent healthcare environment, which will allow them to be up to date with the most effective procedures and approaches in Musculoskeletal Ultrasound.

3. Entering First-Class Clinical Environments

TECH maintains a philosophy of offering the highest quality in all its Internship Programs. For this reason, it selects under rigorous criteria all the centers available for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment in the area of Musculoskeletal Ultrasound in Rehabilitation Medicine. In this way, you will have the guarantee of being in front of a program that will respond to the need to keep abreast of the latest advances in this area.



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

One of TECH's goals with this program is to bring, in a direct and clear way, the technical and technological advances in Musculoskeletal Ultrasound in Rehabilitation Medicine. To this end, it has designed this 100% online program, which offers an eminently practical stay from the very beginning. In this way, it goes beyond the simple theoretical concept, and introduces the specialist to the daily work of real experts in this area.

5. Expanding the Boundaries of Knowledge

This program has been designed to provide knowledge that goes far beyond daily practice and seeks to offer the latest developments in Musculoskeletal Ultrasound in Rehabilitation Medicine through a clinical center of great prestige. This will allow the graduate to get a first-hand view of the latest and most effective techniques, and to master the use of equipment, which employs the latest technology. In this way, you will be able to expand your practical knowledge in any high-level healthcare setting.



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

03

Objectives

The general objective of the Internship Program in Musculoskeletal Ultrasound in Rehabilitation Medicine is to ensure that the professional updates the diagnostic and therapeutic procedures of the specialty in an exclusively practical way. For this purpose, you will have a hospital stay designed with clinical and academic rigor, where you will be accompanied by renowned professionals, who will show you the latest scientific-technical evidence in this specialty and the use of the most sophisticated equipment



General Objectives

- Master the latest techniques in the use of ultrasound by the rehabilitation physician and their legal considerations
- Incorporate the different existing ultrasound equipment into daily work and learn to use them beneficially
- Update knowledge of ultrasound imaging and the different tissue patterns





Specific Objectives

- ◆ Identify the ultrasound patterns of the different structure of the locomotor system
- ◆ Recognize the most common injuries in Rehabilitation Medicine, for a correct ultrasound-guided treatment and/or follow-up of their evolution
- ◆ Describe less common pathologies that may affect the shoulder, elbow, wrist, hand, hip, thigh, knee, leg, ankle, foot and forefoot joints
- ◆ Perform dynamic ultrasound-guided assessment test
- ◆ Delve into the sonoanatomy of the locomotor apparatus



This Internship Program gives you the opportunity to work in a real scenario with real patients, with the guarantee of a state-of-the-art technological institution with the highest scientific level"

04 Educational Plan

The Internship Program's Internship Program consists of a 3-week practical stay in a prestigious healthcare center, from Monday to Friday, with 8 consecutive hours of practical training with an associate specialist. This stay will allow you to see real patients alongside a team of specialists of reference in the area of Musculoskeletal Ultrasound in Rehabilitation Medicine, applying the most innovative diagnostic procedures, using the latest technology used in ultrasound scanners.

In this training proposal, of a completely practical nature, 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 which are oriented towards specific training for the exercise of the activity, in an environment of patient safety and high professional performance.

TECH facilitates, in this way, an Internship Program that responds 100% to the real needs of professionals who wish to keep abreast of the latest developments in this area, and also wish to do so in a real healthcare scenario, in a recognized center and together with professionals with extensive experience. Undoubtedly, an opportunity to learn by working in a rigorous, exhaustive and innovative environment.

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 medical practice Medicine(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
Handling of ultrasound equipment	Set parameters for working with ultrasound scanners
	Differentiate the imaging patterns and tissues to be obtained in ultrasound
	Configure the machine based on the type of lesion to be detected
	Perfecting total control of the transducer probe
Musculoskeletal Ultrasound Diagnosis	Define the area to be analyzed to obtain an accurate image in the ultrasound examination
	Fully evaluate the region of interest in order to avoid unnecessary errors
	Increase diagnostic sensitivity by evaluating selected structures in both longitudinal and transverse planes
Arthrosis and microcrystalline arthropathies	Early detection of articular cartilage alterations and osteophytes
	Make a differential diagnosis in symptomatic peripheral joints
	Monitor the therapeutic response in cases of gout
	Detect possible joint inflammation
Rheumatoid Arthritis	Make a differential diagnosis between rheumatoid arthritis and other inflammatory arthritis
	Assessing inflammatory activity and joint structural damage in early arthritis
	Identify synovitis in patients with arthralgias or suspected diagnosis of rheumatoid arthritis
	Identify subradiological structural damage in patients in clinical remission
Systemic Autoimmune Diseases	Detect subclinical joint and periarticular inflammation
	Evaluate salivary glands for Sjögren's syndrome
	Analyzing muscle inflammation in inflammatory myositis
Other areas of musculoskeletal ultrasonography	Study skin involvement in systemic sclerosis
	Perform dynamic shoulder, elbow, wrist and hand tests
	Integrate in upper and lower limb sonoanatomy processes
	Diagnosis guidelines for hip, knee and other pathologies

05

Where Can I Do the Internship Program?

The professional will be able to carry out the on-site stay in a health center of recognized prestige where they will carry out various practical activities. These actions will be focused on the effective performance of ultrasound applied to the musculoskeletal field. Throughout the stay, the physician will be accompanied by specialists from the clinical center itself, and will have access to first class technology and equipment.



You have the opportunity to carry out your practical stay in a center of recognized prestige"





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



Medicine

Centro Médico Villanueva de la Cañada

Country: Spain City: Madrid

Address: C. Arquitecto Juan de Herrera, 2, 28691 Villanueva de la Cañada, Madrid

Medical center with services in the main clinical specialties and diagnostic tests

Related internship programs:

- Clinical Nutrition in Pediatrics
- Primary Care Clinical Ultrasound



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

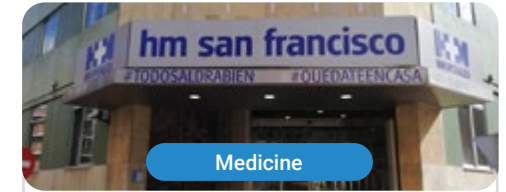
Country: Spain City: La Coruña

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

Hospital HM Vallés

Country: Spain
City: 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 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: Spain
City: 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: Spain
City: 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: Spain
City: 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



Medicine

Engrama

Country	City
Mexico	Mexico City

Address: Martín Mendalde 922, Del Valle Centro, Benito Juárez, CDMX. México

Specialized physiotherapeutic care center with more than 10 years of experience.

Related internship programs:

- Geriatric Physiotherapy
- Electrotherapy in Physiotherapy



You will learn firsthand the reality of working in the area, in a demanding and rewarding environment"

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 educational entity undertakes to take out civil liability insurance to cover any eventuality that may arise during the stay at the internship 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 Musculoskeletal Ultrasound 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 Musculoskeletal Ultrasound in Rehabilitation Medicine**

Duration: **3 weeks**

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

Accreditation: **5 ECTS**





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