

Internship Program

Update on Orthopedic Surgery and Traumatology



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Internship Program
Update on Orthopedic
Surgery and Traumatology

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01 Introduction

Orthopedic Surgery and Traumatology are constantly incorporating advances from molecular biology, biomaterials research, diagnostic techniques and new access routes. A challenge of updating that offers new possibilities in the management of patients and that the specialist must integrate in a practical and complete way. This program is aimed at incorporating the most important advances in this discipline into the students' professional practice. From a professional stay of 3 weeks, they will learn in the most direct and meaningful way everything related to this sector with great experts.



Learn in a 100% practical and real way, the new ways of approaching the different clinical situations that arise in the field of Orthopedic and Traumatologic Surgeries”





The volume of information increases exponentially every year in the field of Orthopedic Surgery and Traumatology. For this reason, it is difficult to maintain an up-to-date knowledge of all areas of this specialty. In addition, the current tendency to subspecialize in one anatomical region or surgical technique makes it even more difficult to stay current. In addition, the increase in the average lifespan of people translates into a greater number of degenerative and disabling osteoarticular injuries. At the same time, a great development has been achieved in trauma surgery, especially in joint replacements, the surgical management of fractures through different osteosynthesis techniques, among others. In view of all these advances, it is essential for physicians to be able to respond adequately to the evolution of scientific and technological knowledge, and to the evolution of their field of action in the different healthcare systems, by means of appropriate training.

That is why TECH has devised this innovative academic modality that focuses exclusively on the development of practical skills by its students. During a 3-week stay in a first level hospital, students will examine the main technologies and techniques that have led to a better diagnosis and therapeutic approach to patients with fractures and traumas of various types. At the same time, you will learn about the most frequent disorders, according to the parts of the body and the differences in the approach between children and adults when it comes to orthopedic surgery.

This Internship Program will take place in prestigious international centers to which TECH has access thanks to its wide network of agreements and collaborations. At these institutions, students will complete 120 academic hours, Monday through Friday, for 21 days. From these spaces of rigorous scientific and technological level, they will exchange and work together with great experts in this professional field. They will also be supported by an assistant tutor, in charge of integrating them properly into the dynamics of care units dedicated entirely to the surgical care of orthopedic injuries and severe trauma.

02

Why Study an Internship Program?

Orthopedic and trauma surgeries save thousands of lives every year. In addition, in early stages of life, they can prevent complications such as scoliosis, flat feet, among others. For these reasons, experts capable of mastering the surgical techniques and technologies of this sector are in great demand in hospital centers. Furthermore, the gradual and constant evolution of all equipment and strategies means that specialists are obliged to remain up to date. Aware of these needs, TECH has composed this program, capable of leading all its students to professional excellence thanks to its 100% practical didactic application.



TECH offers you the latest treatments to prevent and solve hip, arm and lower extremity dislocations in a totally practical way. Don't miss the opportunity and enroll now!"

1. Updating from the latest technology available

The most avant-garde surgical techniques for the field of Orthopedics and Traumatology care are collected in this excellent Internship Program. Also, during the 3 weeks of this program, students will be able to holistically master the most complex technologies within their reach.

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

During this intensive face-to-face stay, students will have direct contact with leading experts in the field of trauma surgery and orthopedic care. They will also have a designated tutor, who will distinguish himself/herself within this Internship Program by their updated knowledge and more complex skills. This figure will be in charge of involving the student in the different work dynamics of the sector.

3. Entering first level-Class Clinical Environments

Through a thorough analysis of the academic landscape, TECH has chosen prestigious centers to be part of this Internship Program. These healthcare institutions apply novel techniques and technologies for the intervention of patients awaiting orthopedic or trauma surgery. At the same time, they have the most highly trained specialists in this field of knowledge.



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

TECH wants to provide you in a fast and flexible way with the most requested professional skills in the field of Orthopedic and Traumatologic Surgery. To this end, it has configured a 100% practical learning model that is a complete departure from other academic curricula where long hours of theory are the norm. These skills will be of great use to the student in his or her future work, distinguishing him or her by his or her updated experiences.

5. Expanding the Boundaries of Knowledge

TECH offers the possibility of carrying out this Internship Program in centers of international importance. In this way, the specialist will be able to expand his frontiers and keep up to date with the best professionals, who practice in first class medical centers and in different continents.



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

03 Objectives

The objective is to be updated in the latest diagnostic and therapeutic procedures in an exclusively practical way, through a hospital stay designed with clinical and academic rigor, under the guidance of renowned professionals in a hospital center of the highest scientific quality and technological innovation.



General Objectives

- ♦ Master the latest and most accurate techniques for the identification and subsequent surgical treatment of orthopedic and traumatologic injuries
- ♦ Manage the most updated technologies and approach methods
- ♦ Incorporate the most effective methods, approaches and clinical analyses into daily work, backed by a team of prestigious experts in the field of Assisted Reproduction



This Internship Program gives you the opportunity to work in a hospital environment, working with real patients, with the guarantee of a practical preparation of the highest scientific level"





Specific Objectives

- ◆ Apply the criteria of EvidenceBased Medicine when choosing the correct treatment in orthopedic surgery and traumatology
- ◆ Distinguish the different applications of cell cultures in Orthopedics and Traumatology
- ◆ Correctly interpret results in interventional radiology of musculoskeletal pathology
- ◆ Know the steps to be followed for posterior fixation with pedicle screws and lateral masses
- ◆ Compare the different types of cervical disc prostheses
- ◆ Distinguish between ponte osteotomies and arthrodesis in Scheuermann's disease
- ◆ Review the steps to be followed in a minimally invasive TLIF lumbar arthrodesis
- ◆ Distinguish clavicle, scapula and humeral head fractures, as well as deciding on the appropriate treatment for each case
- ◆ Apply arthroscopic stabilization of recurrent shoulder dislocation
- ◆ Identify phalangeal and metacarpal fractures and select correct treatment
- ◆ Recognize Dupuytren's disease and select a treatment according to its stage and severity
- ◆ Identify spondylodiscitis and vertebral infections
- ◆ Revise the current status of the surgical approach in Total Knee Replacements and Total Hip Replacements
- ◆ Master the antibiotic management of the patient with osteoarticular infection

04 Educational Plan

The Internship Program of this program in Orthopedic Surgery and Traumatology Update consists of a practical stay in a prestigious international center. Throughout 3 weeks, from Monday to Friday, during 8 consecutive hours, the student will participate in clinical discussions, surgical interventions and will be able to handle complex equipment under specialized supervision.

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

This unique academic opportunity will allow each student to become familiar with the practical activity under the personalized guidance of an assistant tutor. This expert will be in charge of supervising the student's educational progress and, at the same time, will incorporate them into the daily dynamics of services specialized in the care of patients with bone injuries or victims of traumatic accidents.

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 the professors and other training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of the Orthopaedic surgery and traumatology (learning to be and learning to relate).



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

Module	Practical Activity
Surgical techniques and approach to foot, ankle and knee trauma conditions	Apply the specific surgical procedure for hallux valgus and hallux rigidus
	Approach degenerative meniscal tears
	Foot and ankle surgery using reconstructive techniques
	Perform forefoot MIS surgery
	Perform medial femoropatellar ligament plasty in patellar instability
	Proceed, by means of the most advanced techniques, in the transplantation of the extensor apparatus
	MIS approach to knee arthroplasty
	Manage femoral and tibial defects by performing PTR replacement
Surgical techniques and approach to traumatic conditions of the pelvis, hip, femur and spine	Specific treatment of hip fracture in the osteoporotic patient
	Addressing diaphyseal fractures of the femur using the most up-to-date treatments
	Minimally invasive operation in hip arthroplasty
	Sequentially perform hip arthrodesis reconversion to arthroplasty
	Identify and address femoroacetabular impingement syndrome
	Apply percutaneous surgical techniques in tendon friction syndromes around the hip, as well as in thoracolumbar vertebral fractures
	Identifying and managing cervical myelopathy
	Sequenced intervention in an anterior cervical corpectomy
	Recognize the different degrees of spondylolisthesis and respond to this condition
Surgical and trauma procedures of the shoulder, elbow, hand and forearm	Assess and differentiate diaphyseal and distal humerus fractures, applying the specific treatment for each condition
	Examine olecranon fractures, radial head fractures and dislocations, selecting appropriate treatment
	Identify Dupuytren's disease and select a treatment according to its stage and severity
	Approach carpal tunnel syndrome according to the latest clinical postulates
	Apply appropriate treatment for tendinitis, tenosynovitis, cysts and tumors
	Perform percutaneous and ultrasound-guided procedures in synovial and tendon pathologies

Module	Practical Activity
Surgical management and approach to infections and tumors of the musculoskeletal system	Approach spondylodiscitis and other vertebral infections according to the most updated treatments
	Apply specific antibiotic treatments to the different common infections in TOC
	Specifically manage acute and chronic osteomyelitis and septic arthritis
	Apply diagnostic imaging methods in the detection of musculoskeletal tumors
	Apply the radiofrequency ablation technique, identifying the cases that require it
Updated techniques in pediatric orthopedics	Apply arthroscopic techniques in the pediatric patient
	Addressing musculoskeletal tumor, surgically and non-surgically in children
	Diagnose and treat clubfoot and congenital foot pathology
	Perform the specific surgical procedure for infantile paralysis
	Identify and treat, following the latest clinical postulates, early-onset Scoliosis



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”

05 Where Can I Do the Internship Program?

To ensure that the updating process is the best possible, TECH proposes the realization of this on-site stay in a prestigious center that can provide the physician with the latest advances in the field of orthopedic surgery. This is a very complex and broad field, so it requires updating by the specialist, and the role of the hospital institutions proposed here is vital in this process, since they will offer the most advanced knowledge in the specialty.



The most advanced knowledge in the field of Orthopedic Surgery awaits you in this Internship Program"





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



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 La Esperanza

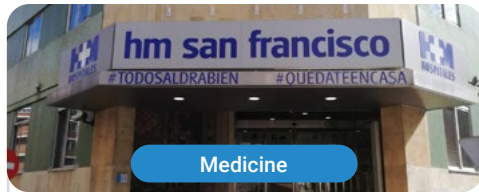
Country	City
Spain	La Coruña

Address: Av. das Burgas, 2, 15705, Santiago de Compostela, A Coruña

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

Related internship programs:

- Oncology Nursing
- Clinical Ophthalmology



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: 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 Arapiles

Country: Spain City: 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 Distrito Telefónica

Country: Spain City: 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: Spain City: Madrid

Address: C. de Jorge Juan, 19, 1° 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 La Paloma

Country: Spain City: Madrid

Address: Calle Hilados, 9, 28850, Torrejón de Ardoz, Madrid

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

- Related internship programs:**
- Advanced Operating Room Nursing
 - Orthodontics and Dentofacial Orthopedics



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 Rosaleda Lalín

Country: Spain
City: 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: 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

Clínica Intègria

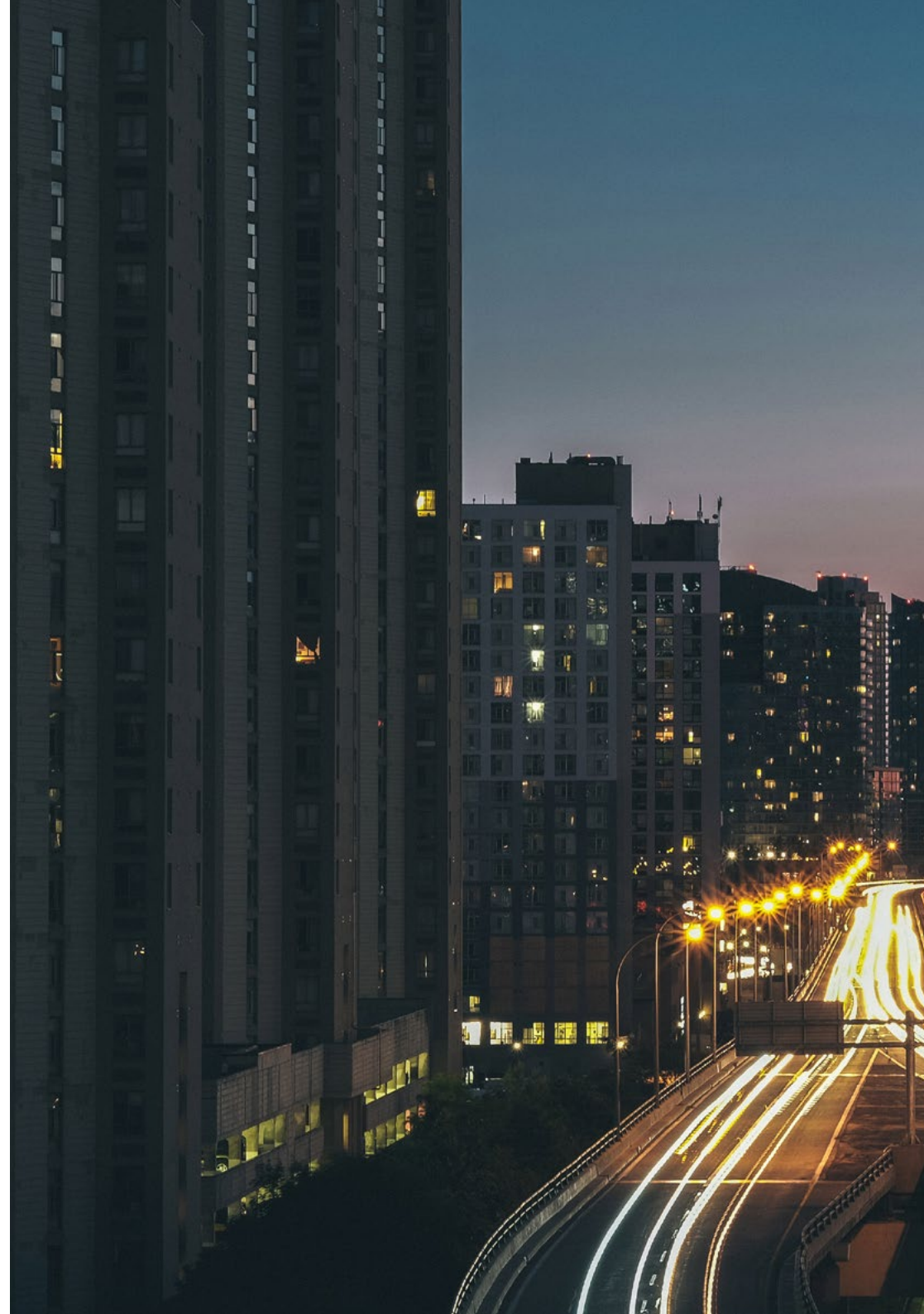
Country: Spain
City: Granada

Address: Calle Torre de Comares, 2, 18007 Granada

INTÈGRIA, clinic with more than 20 years of experience in Aesthetic Medicine, General Medicine, Capillary Surgery and Aesthetic Surgery.

Related internship programs:

- Clinical Analysis
- Aesthetic Plastic Surgery





Medicine

Sanatorio Galeno

Country: Argentina
City: Tucumán

Address: Av. Manuel Belgrano 2970, San Miguel de Tucumán

General medical clinic offering outpatient care, hospitalization and surgery

Related internship programs:

Update in Anesthesiology and Resuscitation
- Update in Intensive Care Medicine



Medicine

Sanatorio Central Banda

Country: Argentina
City: Santiago del Estero

Address: Amadeo Jacques N° 175 4300, La Banda, Santiago del Estero

Clinical center for comprehensive inpatient and surgical care

Related internship programs:

- Hepatology
- Primary Care Clinical Ultrasound



Medicine

Grupo Gamma

Country: Argentina
City: Santa Fe

Address: Entre Ríos 330, Rosario, Santa Fe

Polyclinic specialized in various medical specialties

Related internship programs:

Update in Anesthesiology and Resuscitation
- Gynecologic Oncology

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 **Internship Program in Update on Orthopedic Surgery and Traumatology** 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 diploma issued by TECH will reflect the grade obtained in the test.

Program: **Internship Program in Update on Orthopedic Surgery and Traumatology**

Duration: **3 weeks**

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

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



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