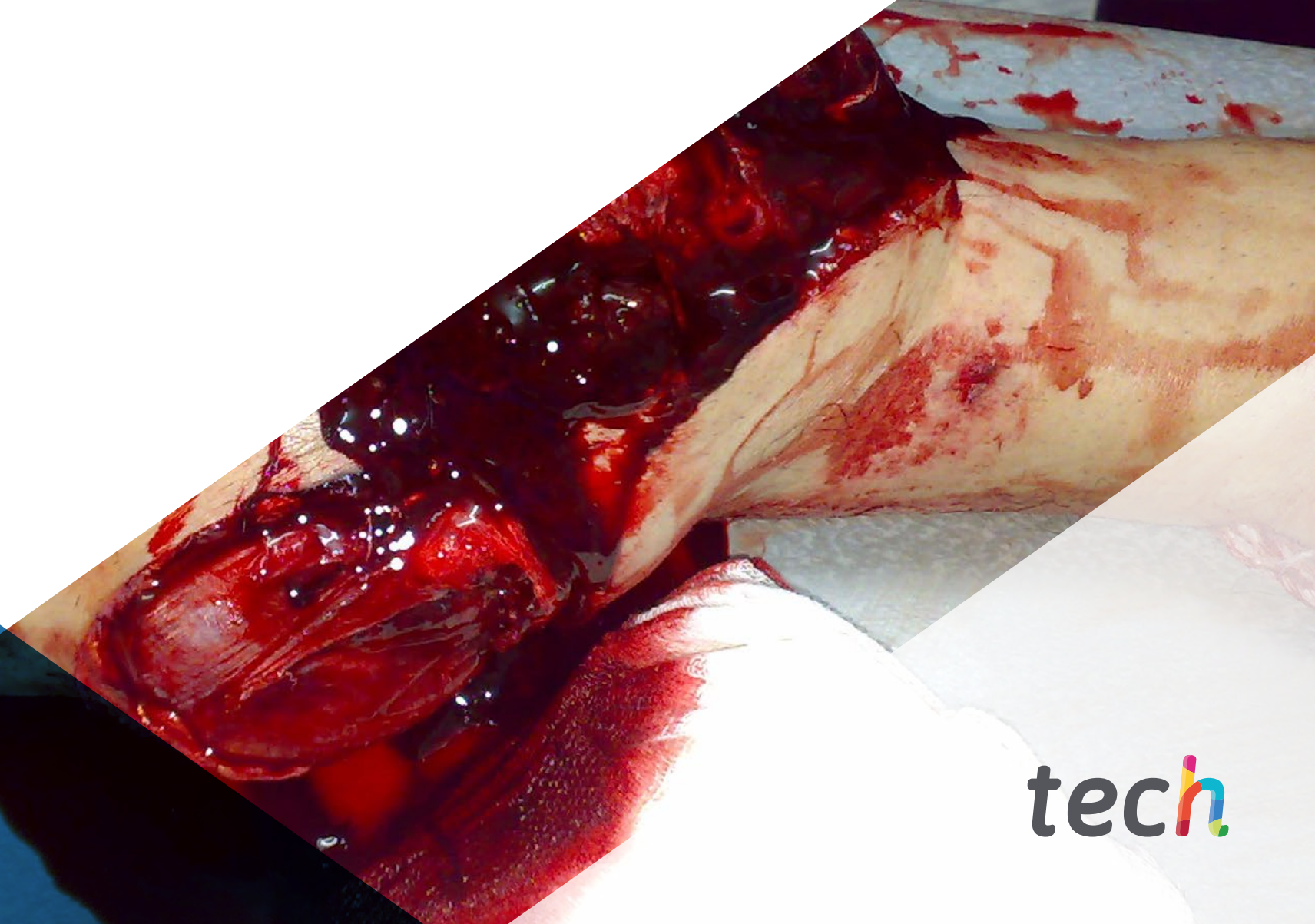


Internship Program Emergency Medicine



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Internship Program
Emergency Medicine

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01 Introduction

The practice of medicine in the emergency department is subject to greater scrutiny than in other healthcare settings, both by the citizens themselves and by professionals who continue to care for patients when they come to their services. It is therefore essential that specialists in this area of health care have the most complete practical skills and master the most up-to-date diagnostic and treatment technologies. TECH has put together a program that offers all these potentialities in an innovative format consisting of 3 weeks of exhaustive on-site training in internationally renowned healthcare facilities. Thus, the student will be able to develop the most demanded competencies of this medical sector with greater agility and practical rigor.



Master the most current equipment that facilitates the daily work of a physician specialized in Emergencies and Catastrophes through this 100% practical educational program”





Statistics designed to measure the quality of the health intervention in the event of an accident or natural catastrophe give equal importance to care and organizational actions. According to specialized figures, the correct management and resolution of the crisis depends on both. In addition, the medical sector is striving to find professionals who are equally qualified for both tasks and who, in particular, can operate the most up-to-date instruments and devices. It is also expected of them that, with the most modern diagnostic and therapeutic tools, they will be able to transcend the traditional health facility and apply all their knowledge in field hospitals and other improvised instances.

Based on these demands, TECH has developed this eminently practical academic program. During 120 educational hours, your students will delve into the most comprehensive transport services for emergencies, as well as strategies for integrating advanced technologies into their stays. They will also examine the most contemporary trends that distinguish the approach to adult patients from those of pediatric age.

This innovative learning modality will be developed for 3 weeks in prestigious hospital centers that dedicate multiple resources to the attention of Emergencies and Catastrophes from the medical point of view. In these instances, each student will have a designated tutor who will oversee the continued development of excellent skills. In addition, this Internship Program has been designed taking into account some of the shortcomings of the pedagogical field that sometimes emphasizes theoretical knowledge to the detriment of the skills and management of daily professional practice. Through this comprehensive program, students will hone their skills by working side by side with leading experts in rigorous, demanding and competitive healthcare settings. The experiences obtained through this on-site stay will allow for a substantial broadening of each student's curricular trajectory.

02

Why Study an Internship Program?

In the medical field, the care of patients affected by Emergencies and Catastrophes has become a coveted specialty. For this reason, in this program, TECH wishes to instruct its students in the use of clinical imaging equipment to diagnose, monitor and treat traumas of varying severity. At the same time, these graduates will be highly proficient in the application of various modern electrical therapies. The learning of these contents will be supervised by an assistant tutor who will also encourage the inclusion of students in discussion tables for difficult cases and the approach to complex patients. These practical activities will be carried out for 3 weeks in an on-site stay in a health facility of international reference.



TECH prioritizes international healthcare standards and, thanks to this practical educational program, you will learn how to apply them in the context of a disaster or emergency with medical implications”

1. Updating from the latest technology available

In the area of Emergency Medicine and Catastrophes, many health equipments have been developed in the last years. This is due to the growing need to move assistance activities more directly to the locations where disasters of various types occur. However, the handling of these technologies is complex and this Internship Program has been designed so that each TECH graduate can apply them without major difficulties during his or her daily professional practice.

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

This Internship Program is supported by a large team of professionals who are part of highly prestigious medical centers. In addition, each student will have a designated tutor. This expert will be in charge of verifying the trainees' mastery of the most up-to-date therapeutic and diagnostic tools. In this way, graduates will develop their professional careers at the same time as they complete the didactic contents.

3. Entering First-Class Clinical Environments

The choice of the medical institutions that are part of this academic modality has involved meticulous care on the part of TECH. Each of the selected instances has rigorous experts. In addition, they apply up-to-date technologies and strive to provide innovative solutions to each patient, regardless of the severity of the patient's condition. This comprehensive and demanding context will allow students to complete their skills in the most professional way possible.



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

During the 3 weeks of this Internship Program, TECH students will intervene and diagnose patients at first hand. This is possible thanks to the innovative learning methodology that promotes the link with the daily work practice from the very first moment. Thus, the student will be focused on developing practical skills, rather than mastering cumbersome theoretical content.

5. Expanding the Boundaries of Knowledge

TECH has a large number of contacts, agreements and collaborations that make it the largest educational institution in the digital context. All these relationships have led to the most prestigious hospitals joining this educational program. Thus, students who take this Internship Program will have on-site access to internationally renowned institutions.



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

03 Objectives

This Internship Program aims to provide students with professional updates on the diagnostic and therapeutic procedures of the specialty in an exclusively practical manner. This knowledge will be provided through a stay in hospital centers, designed with clinical and academic rigor, which will allow them to increase their academic capacity and the handling of complex technological innovations.



General Objectives

- ♦ Apply clinical and non-clinical skills in emergency and disaster medicine
- ♦ Incorporate into daily work the most up-to-date technologies that allow for rapid and comprehensive care of patients affected by emergencies and catastrophes
- ♦ Master the most common conditions and complications related to emergencies such as intoxications, traffic accidents and other cases





Specific Objectives

- ♦ Identify the fundamentals of emergency health care
- ♦ Use medical records in the emergency department and understand the most relevant legal and ethical aspects of health care in emergencies
- ♦ Prioritize, organize and manage patient care in the most efficient way through triage
- ♦ Analyze the risk management of transport for patients and staff
- ♦ Identify the equipment and the communication systems in an EMS
- ♦ Describe the concept of continuity of care and hospital transfer
- ♦ Apply up-to-date basic and advanced CPR techniques for all ages
- ♦ Correctly use an automatic external defibrillator
- ♦ Describe and apply the procedures for neonatal resuscitation
- ♦ Perform and interpret electrocardiograms in emergency situations
- ♦ Apply protocols for medical care in cases of heart rhythm alterations
- ♦ Identify the life-threatening pathophysiological processes
- ♦ Apply the specific procedures in Acute Coronary Syndrome and assess the possibility of prehospital fibrinolysis
- ♦ Know how to address congestive heart failure and acute pulmonary edema
- ♦ Correctly use non-invasive mechanical ventilation
- ♦ Know how to address cardiac tamponade and pericardial effusion
- ♦ Perform pericardiocentesis and pericardial drainage techniques
- ♦ Handle patients with asthma, bronchospasm, and exacerbation of chronic obstructive pulmonary disease
- ♦ Treat a patient with suspected aortic dissection
- ♦ Treat the main immunological emergency pathologies and manage patients suffering from anaphylactic reactions
- ♦ Manage intoxicated patients and injuries caused by environmental agents
- ♦ Manage the main emergency neurological disorders
- ♦ Recognize the principle pathologies of the gastrointestinal tract and the related consequences
- ♦ Handle drugs frequently used in emergency medicine
- ♦ Identify the different traumatology conditions in emergency situations



This Internship Program gives you the opportunity to update your knowledge in a real scenario, with the maximum scientific rigor of an institution at the forefront of technology”

04

Educational Plan

This Internship Program, focused on Emergency Medicine provides an intensive stay in prestigious hospital centers. In these institutions, TECH students will attend from Monday to Friday, in 8-hour days, for 3 weeks. Throughout this process, they will have the specialized guidance of an assistant tutor. This academic figure will be responsible for showing them the complexities of professional practice for this class of health sector experts and will provide them with the necessary skills to apply innovative procedures.

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 learning opportunity is unique in its kind thanks to the methodological approach proposed by TECH and its network of contacts and collaborators. The latter have provided the program's link to internationally recognized institutions. In this way, the student will learn the most updated techniques and tools for the treatment of patients in real time and, at the same time, he/she will make the learning compatible with professional standards at a global level.

The practical teaching will be carried out with the active participation of students performing the activities and procedures of each area of competence (learning to learn and learning to do), accompanied and guided by professors and other fellow trainees, which will facilitate teamwork and multidisciplinary integration as transversal competences for the practice of accident, emergency and disaster situations (learning to be and learning to relate).



Get qualified in an institution that can offer you all these possibilities, with an innovative educational program and a human team capable of developing you to the maximum"



The procedures described below will be the basis of the practical part of the training, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:

Module	Practical Activity
Emergency services and medical transport	Get to know the organization and operation of medical transport with emphasis on the tasks of communication, reporting and coordination
	Working in the state-of-the-art advanced intensive care medical transport unit
Diagnostic and therapeutic techniques and pharmacology in emergency care	Monitor, by means of clinical imaging equipment, the neurological and cardiovascular status of patients
	Calculating drug doses and using advanced infusion pumps
	Apply fluid therapy techniques, according to the recommendations of internationally approved guidelines
	Manage different electrical therapies (transcutaneous pacemakers, electrical cardioversion and defibrillation) in health emergency situations
Medical emergencies in adults	Classify different health conditions, during acute patient care
	Apply analgesia and sedation of the polytraumatized patient according to standardized recommendations
	Master the instruments and techniques for performing minor surgeries for critically ill patients
	Gain knowledge about the most modern Invasive and Non Invasive Mechanical Ventilation strategies in the healthcare field
Medical emergencies in pediatric patients	Manage difficult to access airways with specialized instruments
	Interpret electrocardiograms according to the specific parameters of the child and adolescent organism
	Apply up-to-date peripheral and central venous system access practices

05 Where Can I Do the Internship Program?

In order 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 emergency medicine. 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.

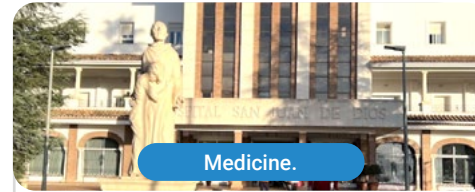


*The most advanced knowledge
in the field of emergency medicine await
you in this Internship Program"*





The student will be able to complete this program at the following center:



Medicine.

Hospital San Juan de Dios Córdoba

Country	City
Spain	Cordoba

Address: Av. del Brillante, 106, 14012 Córdoba

Clinical center specialized in social and health care

Related internship programs:

- Emergency Medicine



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 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 Regla

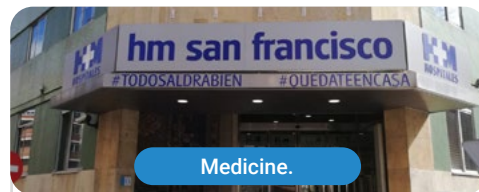
Country	City
Spain	León

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 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 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 Madrid

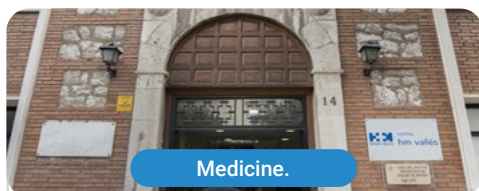
Country	City
Spain	Madrid

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 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.

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 Montepíncipe


Country	City
Spain	Madrid

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

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

Related internship programs:

- Palliative Care
- Aesthetic Medicine



Sanatorio Central Banda

Country	City
Argentina	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



Take advantage of this opportunity to surround yourself with expert professionals and learn from their work methodology"

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 shall have broad coverage and shall be taken out prior to the start of the practical internship period. In this way, the professional will not have to worry in case they have to face an unexpected situation and will be covered until the end of the practical 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 Emergency Medicine** 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.

Title: **Internship Program in Emergency Medicine**

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
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