

# Internship Program

## Toxicology in the Emergency Department for Nursing





**tech** global  
university

**Internship Program**  
Toxicology in the Emergency  
Department for Nursing

# 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. 14

07

Certificate

---

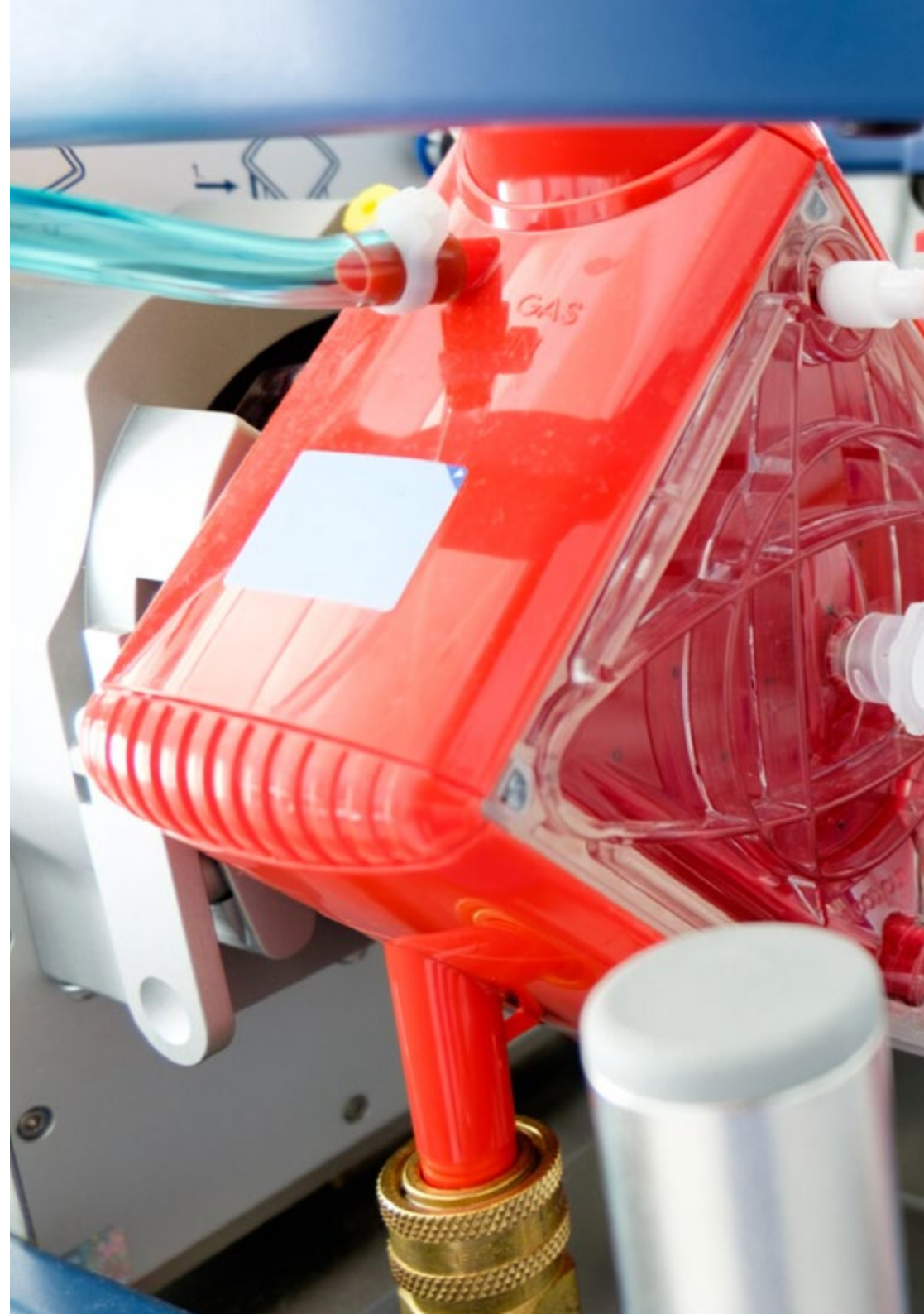
p. 16

# 01 Introduction

The toxicology branch is constantly changing due to the incorporation of technology for the rehabilitation of patients. This discipline, unlike others, requires quick action, especially in emergencies. In this sense, practical experience is key to intervene with intoxicated persons. Far from being ignored, the ability of healthcare workers to deal with acute cases of poisoning is increasingly in demand in the clinical setting. For this reason, TECH has designed a practical program that focuses the graduates in Nursing towards the highest level of healthcare praxis, in their own scenario of action during 3 weeks and supported by specialists attached to the hospital centers where they will carry out their practical training.



*With this program you will incorporate into your daily practice the most relevant advances in the area of Emergency Toxicology thanks to a unique and effective practical academic experience"*





## Toxicology in the Emergency Department | 05 **tech** for Nursing

The broad approach of this health specialty makes it necessary to focus on the emergency department to treat severe poisoning. The main objective of this Practical Training is to provide healthcare personnel with experience in the correct development of toxicology assistance. All this in order to successfully address the professional challenge of caring for patients with urgent toxicological problems. The multidisciplinary acquired by the specialist after completing this program is reflected, prominently, in his knowledge in the evaluation of the patient's condition and the successful management of his treatment.

TECH offers a Practical Training process in prestigious hospitals, so that specialists can develop clinical techniques in the real scenario. This practical period will consist of 3 weeks of intensive learning, integrating the latest technological tools. In addition, they will have the support and guidance of professionals who belong to the team of experts of the health centers throughout the clinical training.

Therefore, throughout the proposed stay in this program, the graduate will become part of a team of professionals of the highest level, with whom they will work actively in the management of the different patients who come to their respective urgent consultations during this period. In this way, you will be able to update yourself not only on the most effective care strategies, but also to implement the most assertive and approachable communication skills in your practice. As a result, you will participate in a program that will bring you up to date with the most important scientific postulates and clinical advances.

During the on-site stay at the reference center you will be supported by an assistant tutor, who will ensure that all the requirements for which this Practical Training has been designed are met. In this way, the nurse will work with total guarantee and safety in the handling of the most innovative clinical technology, as well as in the use of effective therapeutic techniques.

# 02

## Why Study an Internship Program?

The specialized nursing staff plays an active role in the medical care of the ED patient. Their skills and competencies are key in this work and together with the team of doctors they execute the necessary actions in an effective way to save the life of the patient affected by toxic substances in his organism. For this reason, its updating and training on a daily basis is essential, because it is an essential piece in the primary care environment. In this sense, TECH has designed this eminently practical learning space for training in a reference clinical center where the student will have all the necessary resources to be updated in terms of methods, techniques, tools, equipment most used in patient care in Emergency Toxicology.



*Enjoy a purely hands-on academic experience exclusive to TECH at a prestigious clinical center"*

### 1. Updating from the Latest Technology Available

The area of Toxicology in Emergency Medicine requires quick actions and the availability of effective technical equipment to attend the patient. Thanks to TECH's commitment to creating professional development programs, it brings its students to clinical centers equipped with the most advanced technology and state-of-the-art equipment. In this way, you will be able to approach innovation in the care of patients affected by substances that are toxic to their bodies.

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

TECH students always have the support of the best professionals. During the on-site stay at the reference clinical center, you will become part of a multidisciplinary team and perfect your clinical practice, which translates into a process that guarantees your unprecedented up-to-date. Together with the tutor designated for this internship, the student will be able to see real patients in a state-of-the-art environment.

### 3. Entering First-Class Clinical Environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment. In this way, you will be able to see the day-to-day work of a demanding, rigorous and exhaustive sector, always applying the latest theses and scientific postulates in its work methodology.



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

The academic market is plagued by teaching programs that are poorly adapted to the daily work of the specialist and that require long teaching hours, often not very compatible with personal and professional life. TECH offers a new learning model, 100% practical, which allows you to get to know the latest procedures in the field of Emergency Toxicology and, best of all, to put it into professional practice in just 3 weeks.

#### 5. Expanding the Boundaries of Knowledge

TECH offers you this Practical Training to be carried out not only in national but also international centers. This way, the Nurse will be able, to expand their frontiers and catch up with the best professionals who practice in first class centers and in different continents. A unique opportunity that only TECH could offer.

“

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

# 03

## Objectives

This program has a comprehensive update on issues such as the main toxic agents in the environment, mechanisms to protect the severely intoxicated patient and those around their, as well as the process of care, diagnosis and treatment of the severely intoxicated patient in its full dimension. The clinical stay is also a turning point in the nurse's professional career. The professionalism of the healthcare team with whom the students will be trained and who will be involved in the whole practical process, will not only help them to deal with different real cases of intoxicated patients, but they will also learn about the protocols for action in emergencies and will learn about healthcare skills in the event of serious pathologies.



### General Objectives

---

- ♦ To master the latest health care techniques and application of state-of-the-art technologies in the technologies in the treatment of patients in the area of toxicological emergencies
- ♦ Incorporate the most effective methods into daily work, endorsed by a team of prestigious experts in the field of Toxicology
- ♦ To innovate in terms of the specific approach and common cases that occur in the clinical setting of Toxicology in the Emergency Department







## Specific Objectives

---

- ♦ Explain the process of applying life support in the acutely poisoned patient
- ♦ Apply preventive techniques for gastrointestinal absorption
- ♦ Describe the organic repercussions of toxicology in athletes and the different products used
- ♦ Identify products that may pose a risk of poisoning to both the mother and the newborn during breastfeeding
- ♦ Describe the epidemiology, etiology and repercussions of acute poisonings in pediatric and neonatal age
- ♦ Explain the toxicokinetics of substances for chemical submission and their treatment in case of acute intoxication
- ♦ Identify the toxicokinetics of amphetamines and designer drugs and how to treat cases of acute intoxication
- ♦ Identify the toxicokinetics of SSRI and other atypical antidepressants and their treatment in case of acute poisoning
- ♦ Explain phytotherapeutic and vitamin poisoning
- ♦ Explain the toxicokinetics of asphyxiants and pulmonary irritants and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of antiseptics, disinfectants and sterilants and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of methanol, ethylene glycol and other toxic alcohols and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of pyrethroids and insect repellents and how to treat cases of acute intoxication
- ♦ Identify cleaning, personal hygiene and beauty products that pose a risk of poisoning
- ♦ Describe the possible serious poisonings caused by marine animals and their treatment
- ♦ Describe the possible serious poisonings caused by arthropods, arachnids, tarantulas, scorpions, ants, hymenoptera, butterflies, termites, beetles, etc., and their treatment



*This Practical Training provides you with the tools to learn first-hand about emergency treatments associated with psychotropic drugs"*

# 04

## Educational Plan

The Practical Training of this program in Emergency Toxicology for Nurses is developed during 3 weeks of exhaustive practices that provide the specialists with an instruction in the healthcare field. The 8-hour consecutive days are distributed from Monday to Friday with the support of an associate nurse from the hospital center in question. In this way, the nursing graduate will be able to perform field work in situ, with real patients and with the endorsement of the tutors to develop effective clinical interventions.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare in areas of Toxicology, Demand, 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.

TECH has designed the practical training in such a way that the student plays an active role in emergency health care, optimizing it and complying with the requirements of the sector. The student will treat patients intoxicated by smoke inhalation, consumption of illicit substances, intoxication by drugs, gases, hygienic products, phytosanitary products and natural agents, such as animals, as well as identify the appropriate therapeutic and diagnostic means in each case and optimize the clinical nursing practice.

The main objective of this proposal is to improve nurses' performance and enable them to intervene in real patients, putting their previous knowledge into practice. In addition, the specialists will be accompanied by a teaching team versed in the toxicological area, who will be in charge of guiding and orienting the students to assist from neonates to the elderly with a variety of intoxications. It is the best way to understand and integrate health processes through innovative tools and in a clinical scenario that provides nurses with scientific keys to diagnose pathologies.

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 Current nursing practice (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the internship, 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 trained in the therapy of intoxicated patients, thanks to an innovative practical program and a team capable of developing you to the maximum"*



Module	Practical Activity
<b>Assessment and urgent care of the intoxicated patient</b>	Monitor the cardiac rhythm of the intoxicated patient, verifying pulse and controlling of the BP
	Perform arterial blood gases to assess the patient's acid-base, ventilatory and oxygen status
	Hemodynamic Stability and Instability in Poisoned Patients
	Administer basic antidotes to lessen the effect of the toxic substance on the body, on the organism
	Apply general life support measures with special attention to maintaining a patent airway
	Identify Pediatric Dental those toxics that cause hepatic affectation, Act their repercussion at the organic level
	Identify violent and self-injurious behaviors in relation to psychiatric toxicology in the Emergency Room
<b>Approach to the patient with intoxication by industrial agents</b>	Perform restoration and maintenance of airway, ventilation and circulation
	Perform physical examination and apply preventive measures for industrial toxics
	Verify state of consciousness, neurological focality, coexistence with other injuries such as TBI, pupil size and reactivity
	Perform an abdominal examination to rule out acute abdomen
	Practice assessing the degree of coma using the Glasgow scale
	Assess the toxicokinetics of a substance in the patient and its treatment together with the team of specialists
<b>Approach to the patient with intoxication by domestic and Natural Signs agents</b>	Perform a complete physical examination, emphasizing muscarinic, nicotinic and central nervous system signs and symptoms, trying to establish the level of severity
	Practice in increasing the elimination Administer, after indication, antidotes or basic medication in case of poisoning by domestic or natural agents
	Monitor the patient's vital signs
	Assess the toxicokinetics of a substance in the patient and its treatment together with the team of specialists
	Apply gastric lavage if necessary or the therapeutic method indicated by the specialist

# 05

## Where Can I Do the Internship Program?

TECH has used prestigious hospitals as a setting for Develop the practical training of its students. In this case, the practical period takes place in a 3-week hospital stay, where nurses will be assisted by expert tutors to carry out their Daily duties. This is a unique opportunity with guidance and technical instructions that guarantee an adequate praxis in each case of intoxication. A practical experience that is monitored by professionals with extensive experience in the sector.



*Stay informed with an enriching internship in a in prestigious hospital center, where you will apply the latest technological advances in medicine"*





## Toxicology in the Emergency Department | 13 **tech** for Nursing

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

**hm san francisco**  
#HOSPITALSANFRANCISCO

**Nurses**

**Hospital HM San Francisco**

Country	City
Spain	León

Management: 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
- Nursing in the Traumatology Department



*"Make the most of this opportunity to surround yourself with expert professionals and learn from their work methodology"*

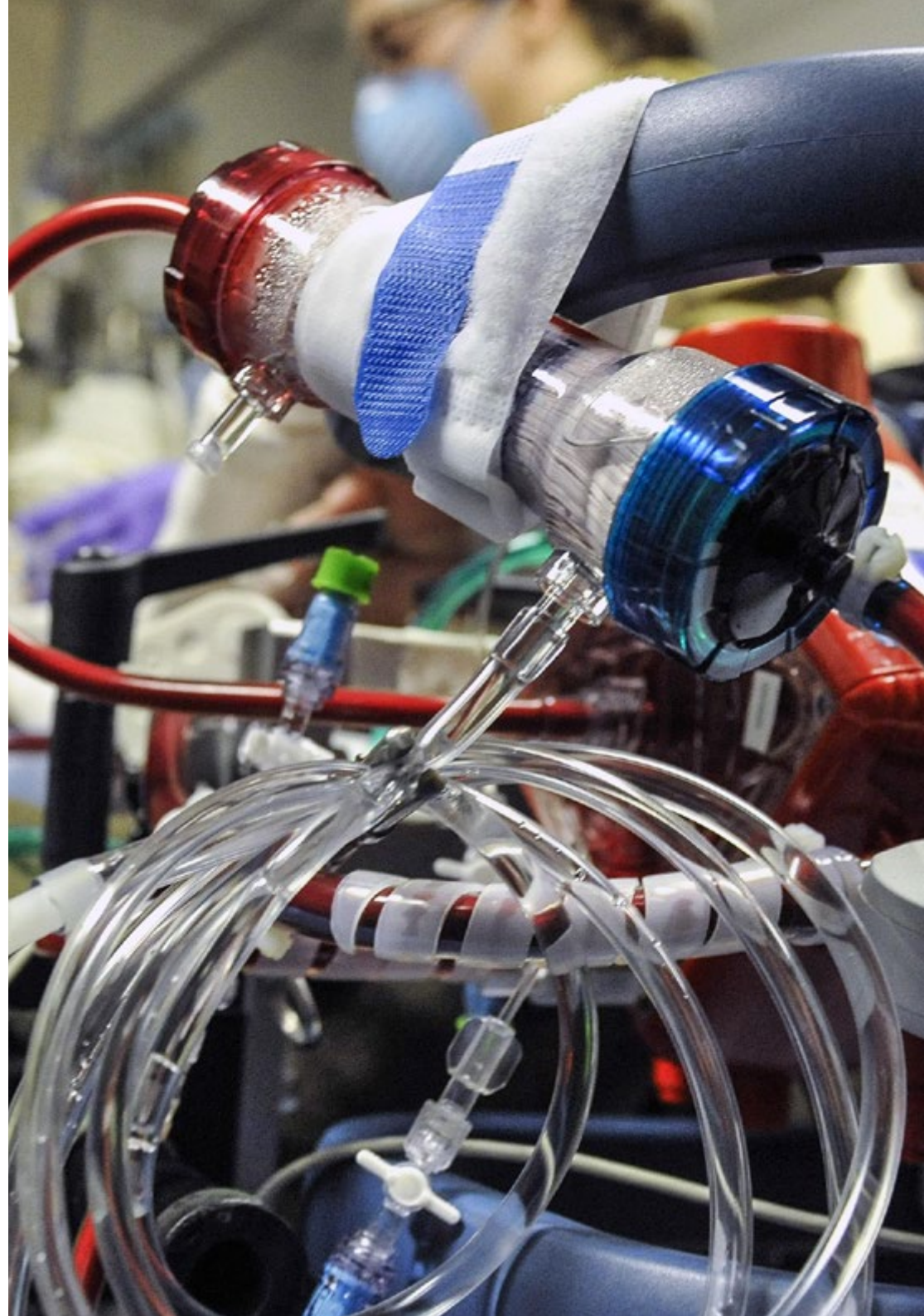
# 06 General Conditions

## 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 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. TUTORING:** 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. ABSENCES:** If the student does not show up on the start date of the Internship Program, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Internship Program will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** The Internship Program shall not constitute an employment relationship of any kind.

**6. PRIOR 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 Toxicology in the Emergency Department for Nursing** 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 Toxicology in the Emergency Department for Nursing**

Duration: **3 weeks**

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

Accreditation: **120 ECTS**







**Internship Program**  
Toxicology in the Emergency  
Department for Nursing

# Internship Program

## Toxicology in the Emergency Department for Nursing