

Internship Program Neonatology





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university

Internship Program
Neonatology

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01 Introduction

With the global rate of prematurity remaining high, Neonatology has seen a steady evolution in the technologies and treatments available. In fact, advanced monitoring systems and state-of-the-art incubators have improved the ability to care for extremely premature neonates, increasing survival rates and reducing long-term complications. In addition, research in gene therapy and the use of Artificial Intelligence are revolutionizing the approach to neonatal care. For this reason, TECH has created the present program, in which in 3 weeks specialists will be integrated into a team specialized in Neonatology to get up to date on the latest developments and technologies available, therefore being able to take them to their own daily practice in a comprehensive and efficient way.



Thanks to this Internship Program, you will acquire skills such as clinical assessment, implementation of resuscitation techniques and handling of specialized equipment, in a real environment"





Neonatology has advanced significantly in recent years, driven by technological innovations and an increasing focus on personalized care. In this regard, Neonatal Intensive Care Units have incorporated advanced equipment, such as high-frequency ventilators and noninvasive monitoring systems, which have markedly improved survival rates and long-term prognosis for premature neonates. And as the best way to perfect these skills is through practice, TECH has designed a program that consists of a 120-hour stay in a clinical center of reference in the field of Neonatology.

In this way, during 3 weeks, graduates will become part of a team of top level specialists, with whom they will actively work in the management of newborns with various pathologies. In this way, they will be able to update not only on the most effective medical strategies, but will also be able to implement in their practice the most assertive and close communication skills to deliver both good and bad news. In this way, they will not only participate in a program that will elevate their clinical talent to the highest level, but also to increase their human and empathic quality.

Furthermore, during the stay, they will have the support of an assistant tutor, who will ensure that the requirements for which this Internship Program was designed are met. Therefore, specialists will work with total guarantee and security in the handling of the most innovative clinical technology, as well as in the use of the therapeutic and diagnostic techniques with the best results to date.

02

Why Study an Internship Program?

This Internship Program will provide direct immersion in the clinical environment, allowing graduates to apply theoretical knowledge to real situations, develop essential technical competencies and face complex clinical challenges. It will also provide the opportunity to work with advanced technology, practice management and resuscitation techniques, and collaborate with multidisciplinary teams. In addition, students will have the opportunity to interact with neonates and their families, gaining valuable insight and a deeper understanding of the importance of comprehensive and personalized care.



Taking a Neonatology Internship Program will be essential for healthcare professionals who wish to acquire and refine specific skills in the care of newborns”

1. Updating from the latest technology available

The latest technology in Neonatology has revolutionized the care of newborns, especially those in critical or premature situations. Among the most outstanding advances are the non-invasive monitoring systems, which make it possible to measure vital signs such as heart rate, oxygenation and blood pressure without causing discomfort to the newborn. In addition, assisted ventilation techniques have evolved with devices that minimize lung damage, such as High-Frequency Ventilation and Non-Invasive Ventilation.

2. Gaining in-depth knowledge from the experience of top specialists

The large team of professionals that will accompany the specialist throughout the practical period is a first-class and an unprecedented guarantee of updating. With a specifically designated tutor, students will be able to see real patients in a state-of-the-art environment, which will allow them to incorporate the most effective procedures and approaches in Neonatology into their daily practice.

3. Entering first-class clinical environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, specialists will have guaranteed access to a prestigious clinical environment in the area of Neonatology. 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, that allows to get in front of state-of-the-art procedures in the field of Neonatology and, best of all, to put it into professional practice in only 3 weeks.

5. Opening the door to new opportunities

Neonatology specialization offers the possibility of contributing to pioneering developments, such as new resuscitation techniques and management strategies for rare or emerging neonatal diseases. In fact, professionals in the field will be able to participate in clinical studies and research projects that seek to improve long-term outcomes for neonates. In addition, with the growing demand for experts in specialized neonatal care, opportunities have opened up to lead multidisciplinary teams, influence health policies and foster the development of new solutions.



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

03

Objectives

This hands-on specialization will seek to provide physicians with skills in assessment and treatment of critical neonatal conditions, such as respiratory, cardiac and neurological diseases, through the use of advanced technology and specialized techniques. In addition, the ability to make quick and effective decisions in emergencies, improve communication with the multidisciplinary team and families, and promote neonatal-centered care will be fostered.



General Objectives

- ♦ Acquire practical skills in the clinical assessment of the neonate
- ♦ Apply advanced neonatal resuscitation techniques
- ♦ Manage specialized equipment in Neonatal Intensive Care Units
- ♦ Develop skills in the treatment of respiratory, cardiac and neurological diseases
- ♦ Improve the ability to make quick and effective decisions in critical situations
- ♦ Promote effective communication with the multidisciplinary team
- ♦ Provide comprehensive and personalized care to the neonate and their families
- ♦ Apply evidence-based protocols and procedures
- ♦ Evaluate and manage emergent complications in neonates
- ♦ Integrate theoretical knowledge with clinical practice in a real world setting





Specific Objectives

- ◆ Perform a complete initial assessment of the neonate
- ◆ Identify signs of stress and complications in the neonate
- ◆ Apply Assisted and Non-Invasive Ventilation techniques
- ◆ Implement management strategies for Necrotizing Enterocolitis
- ◆ Execute neonatal resuscitation protocols in emergency situations
- ◆ Effectively use monitoring and life support equipment
- ◆ Administer appropriate pharmacological treatments for neonatal conditions
- ◆ Monitor and adjust nutritional support in premature neonates
- ◆ Perform invasive procedures accurately and safely
- ◆ Manage thermal management and prevention of Hypothermia
- ◆ Evaluate and treat Respiratory and Cardiovascular Disorders
- ◆ Coordinate care with other health care professionals in the multidisciplinary team
- ◆ Provide education and support to neonatal families
- ◆ Apply management techniques for Neurological Disorders in newborns
- ◆ Follow up and evaluate the neonate's clinical progress
- ◆ Identify and manage Common and Serious Infections in neonates
- ◆ Implement measures for prevention and control of Nosocomial Infections
- ◆ Apply techniques for the care and prevention of Pressure Ulcers in neonates
- ◆ Use documentation and clinical data recording tools
- ◆ Adapt care protocols to individual neonatal needs

04

Educational Plan

The Internship Program consists of a clinical practical stay of 3 weeks duration, from Monday to Friday and with 8 consecutive hours of practical specialization, always together with an attending specialist. Therefore, this stay will allow graduates to see real patients alongside a team of reference professionals in the area of Neonatology, applying the most innovative procedures and planning the latest generation therapy for each pathology.

In this internship proposal, completely practical in nature, the activities are aimed at developing and perfecting the skills necessary for the provision of healthcare in areas and conditions that require a high level of qualification, and which are oriented to the specific knowledge for the exercise of the activity, in a safe environment for the patient and a high professional performance. It is, without a doubt, an opportunity to learn by working.

The practical teaching will be carried out with the accompaniment and guidance of the professors and other fellow students who will facilitate teamwork and multidisciplinary integration as transversal competencies for medical practice (learning to be and learning to relate).

The procedures described below will be the basis of the specialization, and their realization will be subject to the center's own availability, its usual activity and workload, the proposed activities being the following:





Module	Practical Activity
Evaluation and Diagnosis	Perform a comprehensive assessment of the Newborn
	Evaluate the vital signs and general condition of the neonate
	Identify neonatal pathologies and complications
	Utilize diagnostic tools specific to Newborns
Clinical Care	Administer appropriate medical and pharmacological treatments
	Apply Neonatal Intensive Care
	Monitor the clinical evolution of the neonate
	Implement Neonatal Resuscitation protocols
Therapeutic Interventions	Placing catheters and probes in neonates
	Perform invasive procedures such as lumbar punctures and thoracentesis
	Manage Mechanical Ventilation and Respiratory Support
	Provide Phototherapy care in cases of jaundice
Communication and Teamwork	Collaborate with other health care professionals in decision making
	Informing and advising parents about their baby's health status
	Participate in multidisciplinary case follow-up meetings
	Effectively document and report on the clinical status of the neonate
Research and Continuous Improvement	Participate in clinical research projects related to neonatology
	Analyze and apply new scientific evidence in daily practice
	Contribute to the development of guidelines and protocols for neonatal care
	Evaluate the effectiveness of treatments and techniques applied in the unit

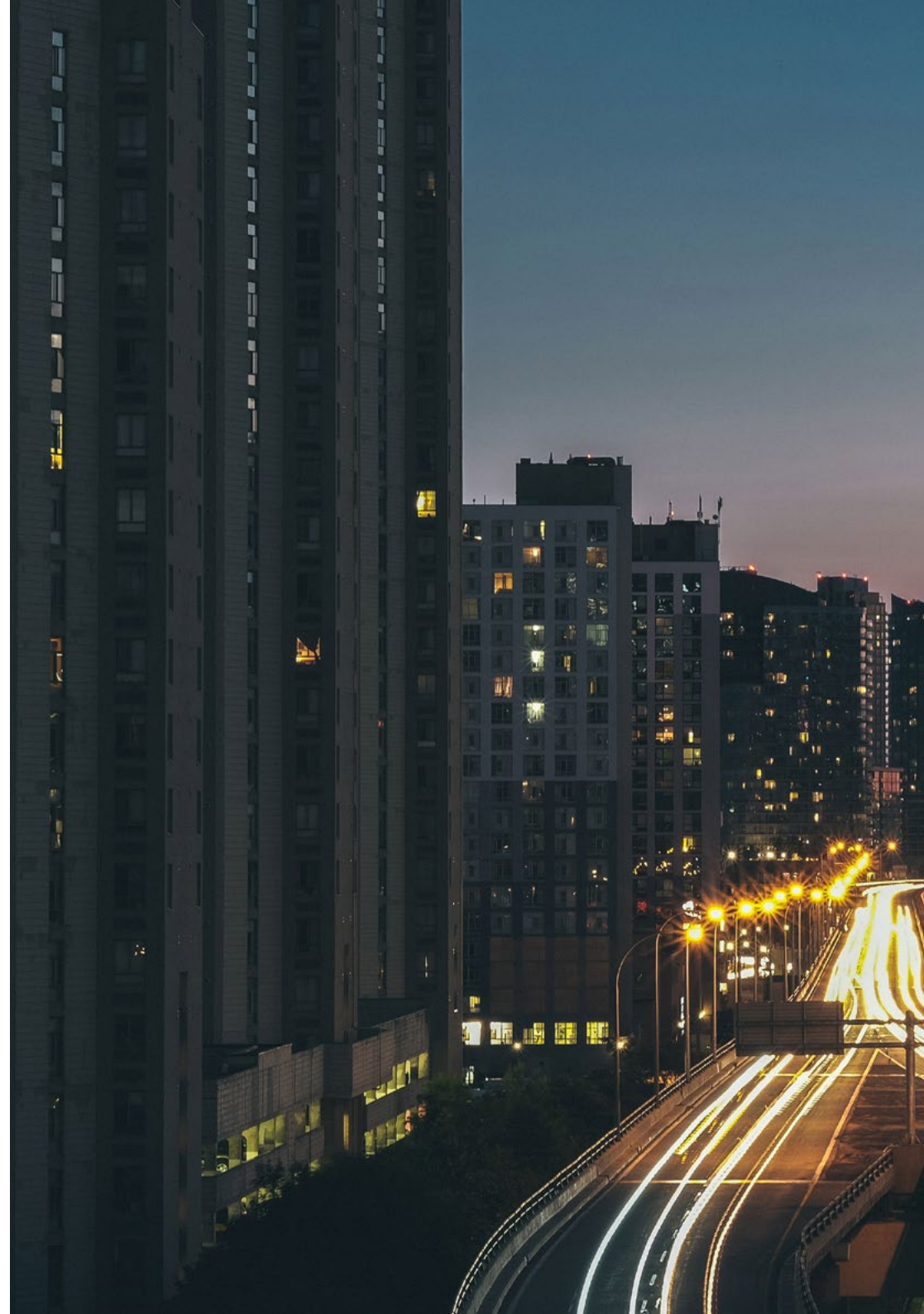
05

Where Can I Do the Internship Program?

In its maxim of offering quality education within the reach of most people, TECH has decided to broaden the academic horizons so that this specialization can be given in various hospitals around the country. Therefore, this is a unique opportunity that will allow professionals to continue to grow their career alongside the best specialists in the field of Neonatology, in various clinics of reference.


“

This practical experience will not only strengthen your clinical skills, but will also improve your ability to make quick and effective decisions, collaborating with multidisciplinary teams”





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



Medicine

IMQ Clínica Zorrotzaurre Bilbao

Country	City
Spain	Vizcaya

Address: Ballets Olaeta Kalea, 4, Deusto,
48014 Bilbao, Vizcaya

Reference center in comprehensive healthcare, committed to
quality and safety

Related internship programs:
-Neonatology

06 General Conditions

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the students 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 Internship Program 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 private qualification will allow you to obtain an **Internship Program's diploma in Neonatology** 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** private qualification, 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 Neonatology**

Duration: **3 weeks**

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

Accreditation: **4 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
online training
development languages
virtual classroom

tech global
university

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