

Internship Program  
Minimally Invasive  
Surgery in Pediatrics



tech



**tech**

Internship Program  
Minimally Invasive  
Surgery in Pediatrics

# 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

Technological advances have allowed laparoscopic and endoscopic techniques to reach a higher level of development and, therefore, to be used in many medical fields. One of the most benefited by this situation is pediatric surgery, since it allows interventions to be performed with less hospital stay time, less pain and with better postoperative recovery for the child. Because of this, medical experts in this area are in great demand by hospitals. For this reason, TECH has created this program, which will allow the professional to spend 3 weeks in a high level center to perfect their skills in minimally invasive surgery for pediatrics and, therefore, respond to the demands of the health sector.

“

*You will master, with this Internship Program, the mechanisms that allow the removal of thoracic tumors in a minimally invasive way in the pediatric patient”*







Over the last few years, minimally invasive techniques have gained greater relevance in the area of pediatric surgery due to the convenience they offer for performing surgery on minor patients. This way, diseases such as appendicitis, gallstones or various types of hernias are treated by innovative laparoscopic methods that offer better aesthetic results and reduced operating and anesthesia times than traditional surgeries performed with open techniques. Therefore, given the wide benefits offered by these advances in the surgical field, pediatric surgeons with high and up-to-date skills in this area are very much needed by health entities to preserve the welfare of the little ones.

This is why TECH has created this program, in order to increase the professional skills of physicians in the field of minimally invasive pediatric surgery in an exclusively practical way. Throughout 120 hours, the student will have access to a hospital characterized by having the latest health technology. There, they will master the most avant-garde techniques for performing endoscopic digestive procedures, assimilate the mechanisms for the minimally invasive removal of thoracic tumors or adopt the best strategies for the fetal treatment of congenital diaphragmatic hernia.

Throughout their practical process, students will be integrated into an excellent multidisciplinary work team and accompanied by a tutor designated specifically for them, who will be responsible for resolving all their doubts and guiding them through a healthcare experience that will enable them to successfully face the challenges of their daily medical practice.

# 02

## Why Study an Internship Program?

In the area of pediatric surgery, the proper application of the latest advances in laparoscopic and endoscopic techniques is essential to develop an excellent professional performance and ensure the welfare of small patients undergoing surgery. For this reason, TECH has created an innovative program that allows students to spend 120 hours in a prestigious hospital environment to assimilate these medical innovations and adopt them efficiently in their daily work methodology.



*Through this exclusively practical program offered by TECH, you will spend 3 weeks in a high quality hospital center to assimilate the most advanced techniques in minimally invasive pediatric surgery"*

### 1. Updating from the latest technology available

Pediatric surgery has undergone a great revolution in recent years due to the appearance of laparoscopic methods of various kinds or the application of robotic surgery to undertake the treatment of various pathologies. For this reason, TECH has decided to design this program, with the aim of allowing the physician to master all these advances in an exclusively practical way.

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

The first-class medical staff that will accompany the student throughout their practical experience is a guarantee of the high quality of this program. Accompanied by their tutor at all times, they will deal with real patients and will include in their medical practice the most efficient minimally invasive surgical procedures for Pediatrics.

### 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 the area of Minimally Invasive Surgery in Pediatrics. In this way, they will 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 educational panorama contemplates a high number of qualifications that require a lot of time and are not adapted to the labor needs of the student. This circumstance has led TECH to create this 100% practical program, which will allow the physician to acquire a series of skills in minimally invasive pediatric surgery with great professional applicability in only 120 hours.

#### 5. Expanding the Boundaries of Knowledge

TECH offers the possibility of taking this Internship Program in the best hospitals. In this way, the specialist will update and expand their skills with the best professionals working in first class medical centers. A unique opportunity that only TECH could offer.



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



# 03 Objectives

The main objective of this Internship Program is to allow the professional to master the up-to-date diagnostic and therapeutic methods in the field of laparoscopy and pediatric endoscopy, through a hospital experience surrounded by the best specialists in the field.



## General Objectives

---

- Increase the physician's professional skills in laparoscopy and pediatric endoscopy
- Face with guarantee and quality the different pediatric pathologies that can be addressed through these access routes



*Do not miss this opportunity and enroll in this Internship Program to increase your skills in minimally invasive surgery in pediatrics in just 3 weeks”*







## Specific Objectives

---

- ♦ Handle urological endoscopic instruments, through cystoscopy and ureterorenoscopy, in order to diagnose and treat many urological pathologies
- ♦ Correctly perform renoureteral system endoscopies
- ♦ Determine the genitourinary malformations that require endoscopic exploration and treatment
- ♦ Use digestive endoscopy as a diagnostic and therapeutic method in the treatment of pediatric digestive tract pathology
- ♦ Master the instrumentation necessary to perform rigid and flexible bronchoscopy in pediatric patients, as well as analyze the pathology susceptible to treatment via this procedure
- ♦ Manage the thoracoscopic approach and the specific surgical techniques used for every child pathologies
- ♦ Delve into the different laparoscopic surgical techniques that can be applied to different digestive pathologies
- ♦ Analyze pediatric urological pathologies and the laparoscopic techniques used to treat them
- ♦ Assess pneumovesicoscopy as an alternative for the treatment of some specific urological pathologies
- ♦ Identify the different urological pathologies in pediatrics and the existing laparoscopic surgical techniques to solve them
- ♦ Establish those neonatal malformations that are attempted to be corrected prenatally and to know which ones require prenatal management and how to approach them

# 04

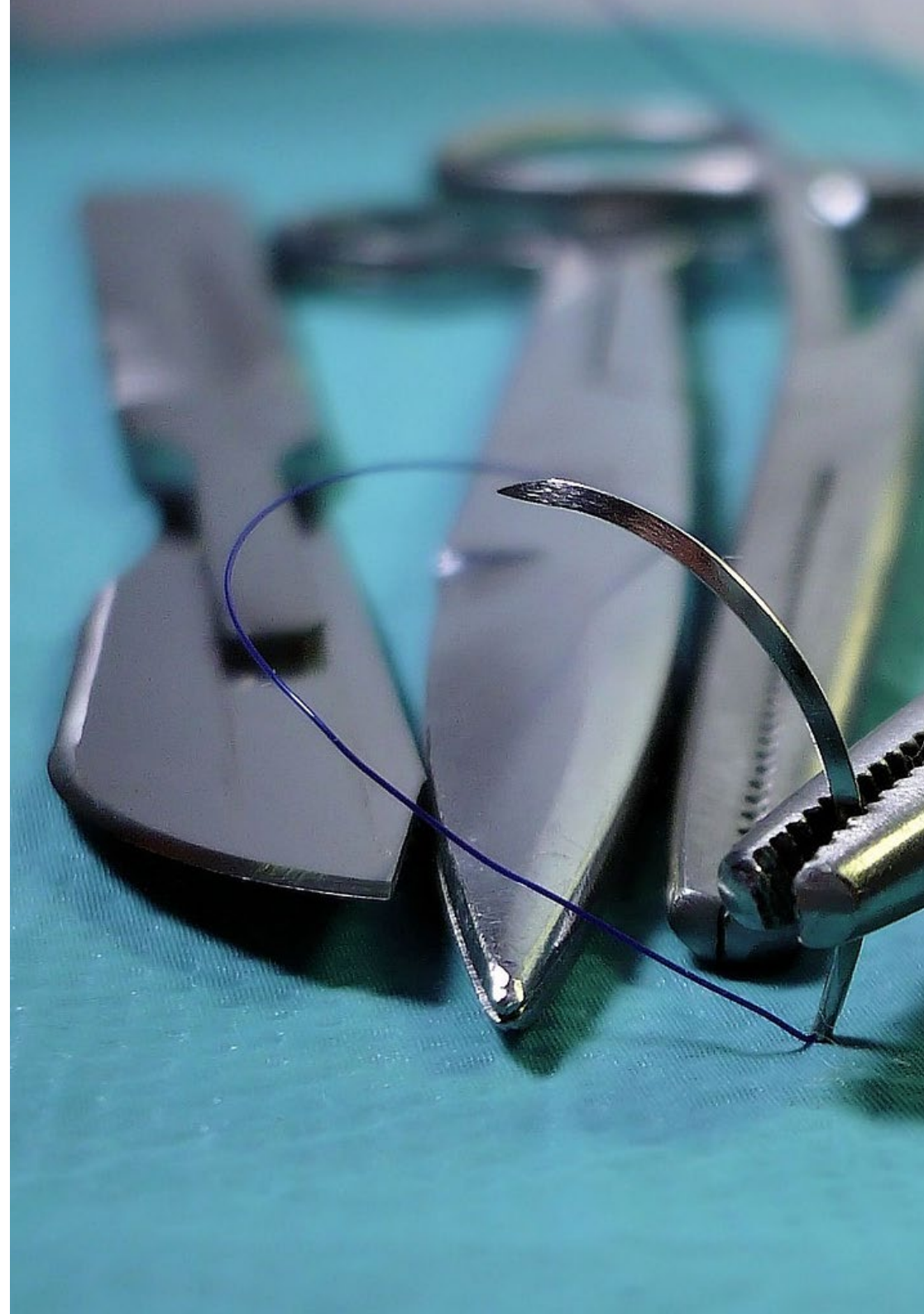
## Educational Plan

This Internship Program consists of a stay in a high level hospital, during 3 weeks, from Monday to Friday, with 8 consecutive hours of work with an attending specialist. Integrated in a multidisciplinary medical team, the student will have experience with real pediatric patients requiring surgery, which will allow them to acquire the most up-to-date techniques and procedures in this field.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide health 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.

It is, without any doubt, an unparalleled opportunity to learn working in a state-of-the-art hospital, where the application of minimally invasive and safe procedures for the patient are the main keys. Thanks to this, you will acquire 21st century skills that will enable you to perform with solvency in all the challenges of the profession.

The student will actively participate by performing activities and procedures related to each area of competence (learning to learn and learning to do), with the support and guidance of the teachers and other classmates to facilitate teamwork and multidisciplinary integration as transversal competencies for the medical practice (learning to be and learning to relate to others).





The procedures described below will form the basis of the practical part of the training, 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:

Module	Practical Activity
Genitourinary Endoscopy	Diagnose and treat urological pathologies in pediatric patients by means of cystoscopy and ureterorenoscopy
	Perform endoscopic exploration and treatment of different types of genitourinary malformations
Endoscopy of the Gastrointestinal and Airway Tract	Undertake the diagnosis and treatment of various pathologies of the pediatric digestive tract by means of digestive endoscopy
	Perform rigid and flexible bronchoscopy in the pediatric patient
	Treat laryngeal tumors and cysts using state of the art techniques supported by the latest scientific evidence
Laparoscopy General and Digestive Surgery	Develop the treatment of inflammatory bowel diseases through novel laparoscopic techniques
	Develop the treatment of abdominal pathologies by means of laparoscopy
	Approach diseases produced in the pancreas, applying splenectomy techniques
Neonatal and Fetal Surgery	Perform endoscopy on newborn and fetal patients to detect possible diseases amenable to surgical intervention
	Correct neonatal malformations through minimally invasive surgical methods
	Eliminate ovarian cysts in neonatal patients

# 05 Where Can I Do the Internship Program?

With TECH's commitment to ensure that all students can access this program with maximum comfort, a large number of hospitals have been selected in which the professional can develop their skills with an excellent team of doctors specialized in pediatric surgery.



*Access to this internship in a prestigious hospital center to enhance your skills in minimally invasive pediatric surgery under the guidance of the best professionals”*







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 HM Rosaleda

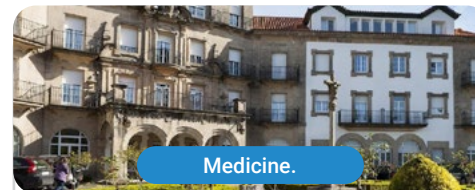
Country	City
Spain	La Coruña

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

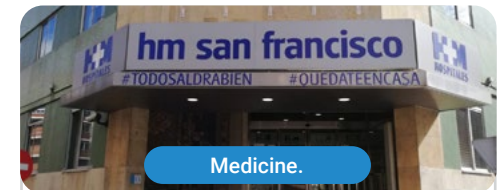
Country	City
Spain	La Coruña

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 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 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





**Policlínico HM Sanchinarro**

Country	City
Spain	Madrid

Address: Av. de Manoteras, 10,  
28050, Madrid

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

---

**Related internship programs:**  
- Minimally Invasive Surgery in Pediatrics



# 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. This 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 practical 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 Minimally Invasive Surgery in Pediatrics** contains the most complete and up-to-date program in the professional and academic landscape.

After the student has passed the evaluations, they will receive their corresponding TECH 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 Minimally Invasive Surgery in Pediatrics**

Duration: **3 weeks**

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

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



**tech**

Internship Program  
Minimally Invasive  
Surgery in Pediatrics

# Internship Program Minimally Invasive Surgery in Pediatrics



tech