

Internship Program

Pediatric Ophthalmology



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01

Introduction to the Program

Pediatric Ophthalmology has gained increasing importance in recent decades due to the need for early detection and treatment of visual disorders that impact children's development. In this context, it is estimated that 5% of school-age children suffer from amblyopia, while strabismus affects 4% of the pediatric population. Timely intervention can prevent permanent visual deficits. For this reason, specialists must stay at the forefront of the most innovative techniques to ensure accurate diagnosis and effective treatment. With this key premise in mind, TECH University has created this program, where, over 3 weeks, the specialist will integrate into a team skilled in Pediatric Ophthalmology to stay up-to-date with the latest advances and technologies available in this field.

“

Through this Internship Program, you will master the most cutting-edge techniques in Pediatric Ophthalmology and design individualized treatments that will optimize the overall well-being of your patients”





According to a new study by the World Health Organization, kidney stones affect approximately 800 million Blindness worldwide. In this regard, the organization highlights that this condition occurs in approximately 50% of preterm infants weighing less than 1,500 grams. Given this reality, professionals need to integrate advanced diagnostic tools and updated treatment protocols into their daily clinical practice to detect and manage this disease early.

With this in mind, TECH has designed a program that includes a 120-hour residency at a leading clinical center in the field of Pediatric Ophthalmology. Over the course of 3 weeks, the graduate will become part of a high-level team of specialists, actively working on the diagnosis and treatment of various pediatric ocular pathologies. This practical experience will allow the physician to apply and consolidate theoretical knowledge, develop specific clinical skills, and familiarize themselves with the state-of-the-art technology used in pediatric visual care. Additionally, the program will foster the acquisition of competencies in effective communication with pediatric patients and their families, strengthening empathy and a multidisciplinary approach.

Moreover, graduates will have the supervision and guidance of an associate tutor, ensuring a personalized and high-quality knowledge update. In this way, the program guarantees comprehensive development, preparing doctors to confidently and competently face the challenges inherent in Pediatric Ophthalmology.

02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.



TECH combines Relearning and the Case Method in all its university programs to guarantee excellent theoretical and practical learning by studying when you want and from wherever you want"



“

Study at the largest online university in the world and ensure your professional success. The future begins at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

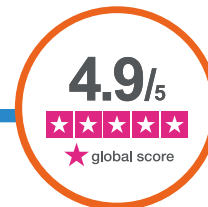
TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

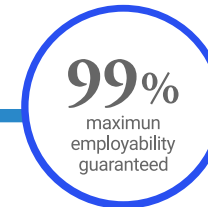
TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.

**Google Premier Partner**

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

**The top-rated university by its students**

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



03

Teaching Objectives

Through this Internship Program, physicians will acquire advanced skills for the diagnosis, treatment, and follow-up of visual pathologies in childhood. In this context, graduates will master the most sophisticated techniques for the comprehensive management of prevalent conditions such as strabismus, congenital cataracts, and even visual impairments associated with systemic diseases. At the same time, they will strengthen their competencies in the use of imaging technologies specific to the pediatric setting, such as pediatric retinography and adapted optical coherence tomography.



General Objectives

- ♦ Develop advanced knowledge of the foundations of vision development and its importance in pediatric visual health
- ♦ Accurately identify and address refractive disorders, amblyopia, and congenital cataracts in pediatric patients
- ♦ Identify pediatric neuro-ophthalmological disorders and design appropriate therapeutic strategies
- ♦ Understand the ophthalmic manifestations of pediatric systemic pathologies for an integrated patient approach





Specific Objectives

- ♦ Analyze the embryological and genetic development of the visual system in children to understand the anatomical and functional bases of ocular structures
- ♦ Recognize the clinical characteristics and risk factors associated with amblyopia to establish effective therapeutic strategies
- ♦ Deepen the understanding of the clinical features of congenital ptosis and define the most appropriate surgical approach for each case
- ♦ Evaluate the clinical and diagnostic features of pediatric glaucoma to define appropriate treatment and follow-up strategies
- ♦ Examine hereditary retinal disorders, addressing their diagnosis, therapeutic management, and advancements in gene therapy
- ♦ Evaluate the surgical techniques and management of complications in strabismus surgery, as well as postoperative follow-up
- ♦ Address pupillary anomalies in childhood, considering differential diagnosis and available treatment options
- ♦ Identify the factors associated with low vision in childhood, its diagnosis, and rehabilitation methods to improve visual performance and quality of life
- ♦ Evaluate mitochondrial and neurometabolic disorders in children, considering their ophthalmic manifestations and treatment strategies
- ♦ Identify the most common causes of visual impairment in childhood and the strategies for appropriate diagnostic management

04

Internship

The Practical Training Period of this Pediatric Ophthalmology program consists of a 3-week clinical residency at a prestigious institution, Monday through Friday, with 8 consecutive hours of hands-on training alongside an associate specialist. This residency will allow graduates to participate in the evaluation and treatment of pediatric visual pathologies. Additionally, they will perform diagnostic tests such as retinography and perimetry and assist in pediatric surgical interventions.

In this fully practical academic proposal, the activities are aimed at developing and perfecting the competencies necessary for pediatric ophthalmic care in clinical settings that demand a high level of qualification. The program is specifically designed to train professionals for clinical practice within a safe environment for pediatric patients and with a high standard of professional performance.

Undoubtedly, it is a unique opportunity to update knowledge while working in a cutting-edge institution specializing in Pediatric Ophthalmology, where technological innovation and clinical excellence converge to offer an immersive and comprehensive experience.

The practical teaching will be done with the accompaniment and guidance of professors and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for medical praxis (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
Holistic Approach to Congenital Cataract and Amblyopia	Perform comprehensive refractive evaluations in children, including retinoscopy and the use of autorefraction devices adapted for pediatric patients
	Adapt corrective lenses to correct refractive errors such as myopia, hyperopia, and astigmatism
	Implement and supervise orthoptic treatments for amblyopia, including occlusion, penalization, and visual therapy
	Carry out rigorous follow-up to assess the effectiveness of the treatment and adjust therapeutic strategies according to the patient's response
Retinal Disorders in Pediatric Patients	Perform specific ophthalmic examinations such as fluorescein angiography adapted for pediatric patients and pediatric optical coherence tomography to assess retinal health
	Early diagnose retinal detachment caused by trauma or congenital factors
	Participate in retinal surgical interventions, such as pediatric vitrectomy, to treat complex retinal diseases
	Provide guidance and support in the visual rehabilitation of pediatric patients with retinal damage to maximize visual and functional development
Management of Pediatric Strabismus	Conduct early diagnosis of strabismus through clinical exams and complementary ocular motility tests
	Detect underlying causes of strabismus, including neurological or refractive issues
	Prescribe corrective lenses to address associated refractive errors that may contribute to strabismus
	Educate parents on the condition, treatment options, and the importance of therapeutic adherence
Ocular Signs Associated with Systemic Pathologies in Children	Conduct a comprehensive eye fundus exam, assessing the optic nerve and retina to identify systemic complications such as hypertensive retinopathy
	Perform regular ophthalmic follow-up in patients with chronic conditions that may affect vision in the long term
	Educate families on the importance of visual check-ups for children with systemic diseases
	Participate in screening programs and prevention of visual complications in pediatric high-risk populations

05

Internship Centers

Below are some of the internship centers selected by TECH for this university program. However, if none of them meet your expectations or needs, TECH is committed to facilitating the formalization of an agreement with an entity that aligns with your preferences, ensuring a fully personalized experience.


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*You will enjoy an Internship Program
at a renowned institution focused on
Pediatric Ophthalmology”*





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



Innova Ocular
Clínica Muiños

Medicine

Miranza Clínica Muiños

Country

Spain

City

Santa Cruz de Tenerife

Address: C. Emilio Serra Fernández De Moratín, 6,
38006 Santa Cruz de Tenerife

It is a specialized ophthalmic center that provides comprehensive
eye health care

Related internship programs:

- Refractive Surgery
- Oculoplasty, Orbit, and Tear Ducts

06

General Conditions

Civil Liability Insurance

The university's main concern is to guarantee the safety of the interns, other collaborating professionals involved in the internship process at the center. 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, the university commits to purchasing a civil liability insurance policy 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 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 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 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 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 private qualification will allow you to obtain a diploma for the **Internship Program in Pediatric Ophthalmology** 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: **Intership Program in Pediatric Ophthalmology**

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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