

# Internship Program

## Refractive Surgery





Internship Program  
Refractive Surgery

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# 01

## Introduction to the Program

Refractive Surgery has revolutionized the treatment of visual defects, offering effective alternatives for the correction of prevalent conditions such as Myopia. Additionally, thanks to technological advancements, the precision and safety of these procedures have significantly improved. However, proper patient selection and preoperative management remain key factors in surgical success. Therefore, it is essential for healthcare professionals to stay at the forefront of the latest advancements in this field to ensure optimal results and minimize risks. With this in mind, TECH Global University has created this program, where, in just 3 weeks, graduates will integrate into a team experienced in Refractive Surgery to update their knowledge.

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*Through this Internship Program, you will master the most innovative techniques in Refractive Surgery and design highly personalized interventions for the correction of multiple Visual Defects”*







According to a new study conducted by the World Health Organization, Refractive Surgery has experienced significant growth in recent decades, with over 20 million procedures performed globally. In this regard, techniques such as LASIK and PRK effectively correct Refractive Defects in patients with Myopia up to -12 diopters and Astigmatism up to 6 diopters. For this reason, it is essential for specialists to incorporate the most modern techniques into their daily clinical practice to optimize results and improve patients' quality of life.

In this context, TECH Global University has designed a program consisting of a 120-hour clinical placement in a leading Refractive Surgery center. As such, throughout the 3-week program, graduates will become part of a team of top-level specialists, working actively on comprehensive patient management, from preoperative evaluation to postoperative follow-up. This practical experience will allow graduates to apply advanced techniques, handle cutting-edge technology, and develop essential clinical competencies for success in this discipline. In this way, healthcare professionals will be prepared to offer high-quality, safe, and personalized care, contributing to the advancement and excellence in the field of Ophthalmology.

On the other hand, during this immersive experience, the graduate will have the support of an experienced adjunct tutor, highly specialized in Refractive Surgery. This professional will ensure that each stage of the academic process meets the highest standards of quality and safety. Additionally, they will provide personalized guidance and supervise the development of both clinical and surgical skills. Undoubtedly, this high-intensity academic program will allow doctors to stay up to date with the latest advances in Refractive Surgery and optimize their daily clinical practice.

# 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.

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*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**

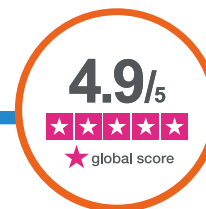
TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each 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**

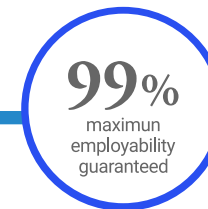
TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology 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 comprehensive university program, doctors will develop advanced competencies to plan and perform cutting-edge surgical procedures for the correction of Visual Defects. Graduates will also manage state-of-the-art technologies such as excimer lasers, femtosecond lasers, and three-dimensional diagnostic systems. In this regard, they will master the latest techniques in preoperative diagnosis, comprehensive patient evaluation, and postoperative management. As a result, experts will ensure highly safe interventions and optimal visual outcomes in every clinical case.



### General Objectives

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- Deeply understand ocular anatomy and physiology to analyze Refractive Defects and their impact on vision
- Handle cutting-edge technologies in Refractive Surgery such as femtosecond lasers and high-precision corneal topography
- Optimize surgical outcomes through personalized planning strategies and postoperative follow-up
- Develop critical decision-making skills in surgical environments, ensuring an approach based on safety and efficacy





## Specific Objectives

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- ♦ Analyze the optical principles of the eye and their relationship with the most common Refractive Defects
- ♦ Interpret topographic and aberrometric studies for proper surgical planning
- ♦ Evaluate technological advances in excimer lasers and their impact on personalizing treatments
- ♦ Integrate topographic, biomechanical, and aberrometric data into the surgical decision-making process
- ♦ Perform a thorough preoperative evaluation to determine the patient's suitability
- ♦ Review pre-surgical preparation protocols to ensure the safety of the procedure
- ♦ Apply procedures such as LASIK, PRK, and SMILE based on clinical and technological criteria
- ♦ Prevent postoperative complications and ensure proper clinical follow-up
- ♦ Determine the selection criteria for phakic intraocular lens implantation in Refractive Surgery
- ♦ Establish safe surgical strategies for patients with Glaucoma requiring refractive correction



# 04

## Internship

The Practical Training period of this Refractive Surgery program consists of a 3-week clinical placement at a prestigious institution, held from Monday to Friday with 8-hour consecutive practical training sessions alongside an adjunct specialist. This placement will allow graduates to consolidate their knowledge through direct application in real cases, developing essential clinical skills in preoperative evaluation, surgical planning, handling advanced technologies, and postoperative follow-up.

In this academic proposal, activities are designed to develop and perfect the essential competencies needed to provide specialized ophthalmological care in Refractive Surgery. This completely practical program is aimed at training graduates for the safe and effective practice of advanced surgical and diagnostic procedures, ensuring a maximum safety environment for the patient and a high level of professional performance.

Without a doubt, this is an opportunity to update knowledge by working in an excellence center in Refractive Surgery, where surgical precision and the use of cutting-edge technologies are the central focus of clinical practice. This offers a new way to understand and integrate advances in the treatment of Refractive Defects, making this institution the ideal educational setting for this innovative experience in enhancing medical and surgical competencies.

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:



*You will accurately identify treatable Ametropias through Refractive Surgery, such as Myopia, Astigmatism, or Presbyopia"*



Module	Practical Activity
Comprehensive Approach to Refractive Defects	Conduct a detailed clinical history focusing on visual symptoms, medical history, and patient expectations
	Design the most appropriate refractive treatment based on the type of defect
	Determine surgical parameters based on optical and biometric tests
	Participate in Refractive Surgery, performing or assisting in therapies such as excimer laser ablation
Preoperative Evaluation in Refractive Surgery	Collect relevant medical and ophthalmological history, such as allergies
	Examine the anterior and posterior segments using a slit lamp and fundus examination
	Measure pupil diameter under scotopic and photopic conditions
	Address postoperative questions regarding recovery and potential visual outcomes
Techniques for Lens Extraction	Conduct a comprehensive assessment of patients with Refractive Defects associated with Presbyopia or incipient cataracts
	Measure essential biometric parameters for surgical planning, such as axial length, anterior chamber depth, etc
	Design the surgical plan considering the refractive and anatomical characteristics of the patient
	Implant intraocular lenses to simultaneously correct refractive errors
Advanced Treatments for Glaucoma	Analyze intraocular pressure and evaluate both the visual field and the optic nerve status
	Develop surgical strategies that integrate refractive correction with glaucoma management
	Perform safe techniques to preserve the integrity of the optic nerve and maintain pressure control
	Conduct periodic visual field tests and optical evaluations to ensure ocular health



# 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 complete your practical internship at a renowned institution specializing in Refractive Surgery, where you will apply the most up-to-date protocols for postoperative follow-up”*







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



Innova Ocular  
Clínica Muiños

Medicine

### Miranza Clínica Muiños

Country	City
Spain	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

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**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 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 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 Refractive Surgery** 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 private qualification from **TECH Global University** is a European continuing education and professional development program that guarantees the acquisition of competencies in its area of expertise, providing significant curricular value to the student who successfully completes the program.

Title: **Internship Program in Refractive Surgery**

Duration: **3 weeks**

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

Credits: **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

Internship Program  
Refractive Surgery

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