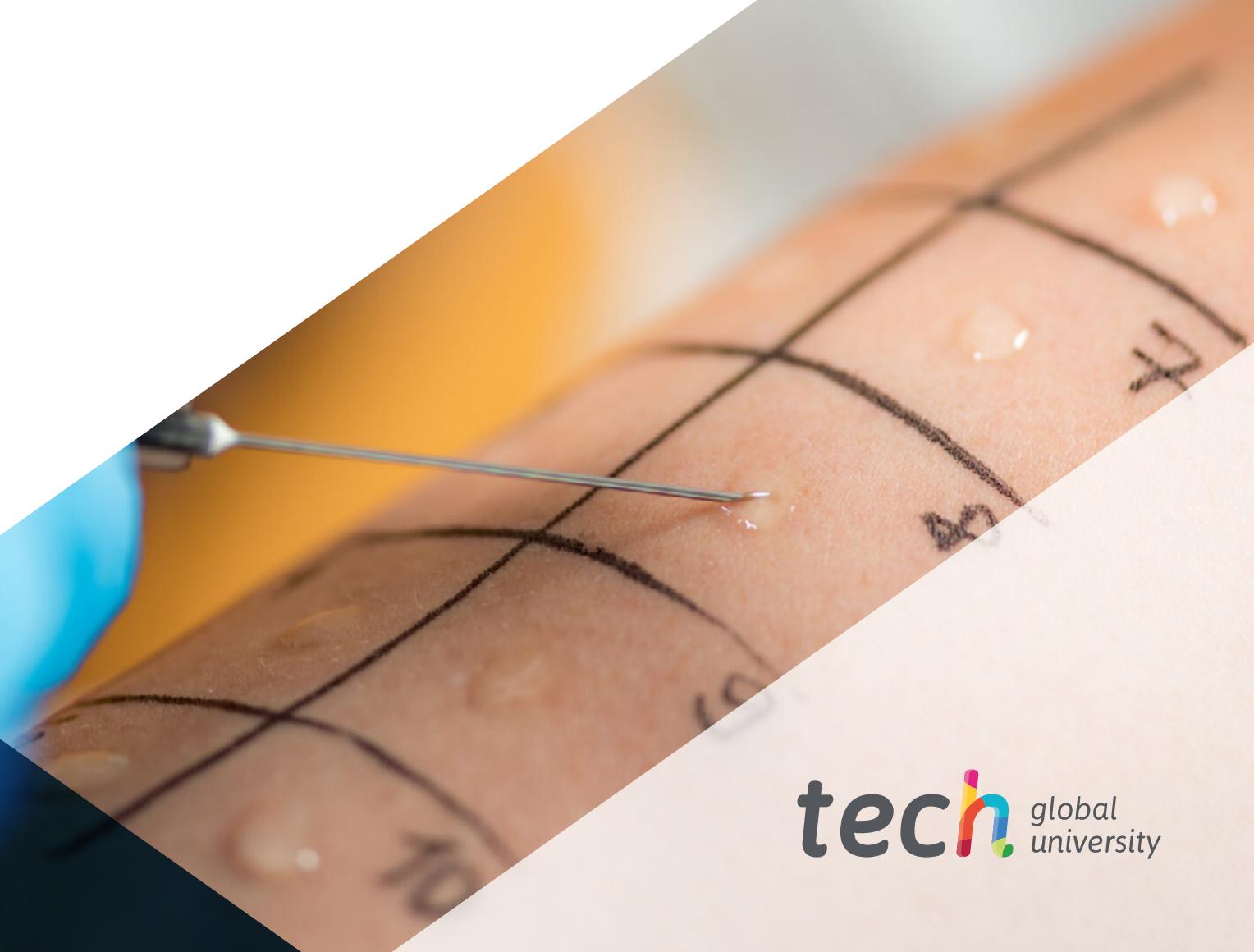


Internship Program

Allergology





Internship Program
Allergology



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01

Introduction

Scientific and technological innovations related to the field of Allergology have perfected diagnostic strategies for various pathologies. Furthermore, therapeutic strategies combining techniques such as Immunotherapy and biological drugs are being implemented to reduce the impact of conditions like bronchial asthma. In light of these updates, healthcare professionals must stay up to date with the latest advancements in the field. However, the educational landscape lacks programs focused on the acquisition of practical competencies for these specialists. For this reason, TECH has set itself apart with a top-tier degree that will facilitate doctors' access to a prestigious hospital institution for a 3-week period. This qualification will enable the management of various pathologies using the most cutting-edge procedures available.

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*Thanks to this program, you will delve into the most innovative *in vivo* and *in vitro* techniques for diagnosing allergic conditions”*





In vivo diagnostic techniques such as the Prick Test and percutaneous patches, as well as molecular methodologies to detect various allergic pathologies, are some of the innovations in the field of Allergology. In recent years, the therapeutics for these diseases have also been refined with the development of newer products and the combination of pharmacological treatments of varying complexity. Due to these constant updates, specialists in this medical field have been forced to expand their competencies through educational programs focused on the most modern equipment and resources. However, few programs in this field address the practical skills required of these professionals.

For this reason, TECH has developed a unique study modality where allergists can acquire competencies to perform complex procedures such as genotype-based inflammatory diagnostics, induced sputum measurements, flow cytometry, and more. This Internship Program will provide students with access to a top-tier hospital, where they will treat patients with different pathologies using the latest scientific evidence. These facilities will be located in various geographic locations thanks to the extensive network of agreements and collaborators available through this study program. As such, physicians will expand their skills in line with international standards.

This in-person, intensive 3-week residency will allow allergists to work alongside highly respected experts and be supervised by a mentor who will track their progress in an immersive environment. These offerings will provide professionals with the essential skills to stand out immediately in a rapidly growing healthcare field.

02

Why Study an Internship Program?

Immunotherapies are among the most innovative therapeutic methods currently applied in Allergology to improve the health of patients. These and other modern techniques have revolutionized the healthcare sector, simultaneously requiring physicians to be properly prepared to implement them. For this reason, TECH has designed this practical, in-person, and intensive training, where professionals will spend 3 weeks at a top-tier hospital and apply new medical strategies to real patients.

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TECH will update you on the latest advancements regarding pharmacological groups for treating various allergic pathologies"

1. Update using the latest available technology

Allergic diagnostic techniques, both *in vivo* and *in vitro*, have undergone continuous evolution in recent years due to new technological tools. Therefore, physicians must stay updated on their correct implementation in everyday clinical practice. Through this Internship Program, they will develop the essential competencies for these tasks.

2. Learn from the best specialists

Throughout this clinical residency, professionals will engage directly with experts who have extensive experience in the field of Allergology. These specialists will guide them in managing high-complexity procedures and technological resources. Additionally, they will be supervised by an adjunct tutor who will monitor their educational progress at all times.

3. Train in top-tier clinical environments

The clinical settings available to specialists participating in this program at TECH hold international certifications of excellence. This is made possible by their advanced technologies and the specialized staff working within them. Thus, physicians will be able to stay up to date by applying cutting-edge procedures and providing the best care to real patients.



4. Apply what you learn to your daily practice from day one

TECH distinguishes itself from other programs on the market by offering a 100% practical training program. Over the course of 3 weeks, allergists will be able to apply the most complex and up-to-date diagnostic and therapeutic techniques. By analyzing these competencies, they will perfect their daily professional practice.

5. Expand the boundaries of your knowledge

The centers selected for this Internship Program are internationally renowned, with highly prestigious specialists. Students will have access to these institutions, located in various geographic areas, thanks to TECH's commitment to expanding the horizons of its graduates. This will be supported by a wide network of contacts and agreements.

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*You will experience full practical immersion
in the center of your choice”*

03 Objectives

This Internship Program in Allergology aims to enable professionals to update diagnostic and therapeutic procedures in the specialty in an exclusively practical manner. This will be achieved through a hospital stay designed with clinical and academic rigor, under the guidance of recognized professionals in a hospital institution of the highest scientific quality and technological innovation.



General Objectives

- Recognize the new ways allergic diseases affect patients and their significance in morbidity within primary care
- Review the latest international practices in Allergology and familiarize yourself with new approaches to management
- Identify respiratory, food, animal, and hymenoptera allergens to carry out appropriate preventive interventions and reduce exposure risks as a primary preventive measure





Specific Objectives

- Address traditional diagnostic techniques for allergic diseases
- Learn the characteristics of the induced sputum technique to phenotype patients
- Apply traditional in vivo diagnostic techniques in daily clinical practice for allergic diseases: *Prick test, Prick-prick, and Epicutaneous tests*
- Define the most commonly used equipment in allergic specialties, including spirometry, rhinomanometry, acoustic rhinometry, exhaled nitric oxide measurement, etc.
- Utilize diagnostic techniques for comorbidities of allergic diseases, such as gastroesophageal reflux, sleep disorders, etc.
- Understand the dosage and indications for different biological formats used to treat allergic respiratory diseases, skin conditions, autoimmune diseases, food allergies, and more
- Implement new clinical guidelines for skin diseases related to Allergology
- Familiarize with new biological drugs for skin pathologies
- Recognize the main differences between idiosyncratic and allergic reactions
- Apply diagnostic protocols for diagnosing beta-lactam and NSAID allergies
- Classify and perform hymenoptera taxonomy based on the patient's geographic location
- Understand international guidelines for the treatment of hymenoptera allergies
- Analyze allergic diseases in a professional context, differentiating between work-exacerbated asthma and work-related asthma
- Identify the main occupational agents with high and low molecular weight
- Learn the basics of telemedicine and social networks in the field of Allergology



By the end of this program, you will be able to master new diagnostic and therapeutic procedures for the efficient management of patients with various allergic conditions"

04 Educational Plan

This Internship Program in Allergology lasts for 3 weeks and will take place from Monday to Friday, with 8 consecutive hours each day. This residency will allow the physician to work with real patients alongside an internationally recognized team of experts in this healthcare field. Together, they will apply the most innovative diagnostic and treatment procedures, providing personalized and efficient care for each case. Additionally, the professional will be supported by an adjunct tutor who will consistently monitor their academic progress.

In this training proposal, each activity is designed to strengthen and refine the key competencies required for specialized practice in this field. In this way, the professional profile will be enhanced, driving a strong, efficient, and highly competitive performance.

The practical teaching will be carried out with the accompaniment and guidance of the professors and other fellow trainees 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
In-Vivo Diagnostic Techniques of Allergic Diseases	Perform Skin Prick Tests on patients suspected of having allergies to pneumallergens
	Apply Prick-Prick tests (dermal, deeper) on patients with suspected food allergies
	Implement epicutaneous tests such as the Patch Test and Photopatch Test for pollen and dust mite allergies
	Conduct oral provocation tests for medications and foods that may cause allergies
	Use nasal provocation tests to evaluate mucosal reactions to allergens in dust, pollen, and other environmental sources
	Diagnose other allergic reactions through conjunctival provocation tests
In Vitro Diagnostic Techniques for Allergic Diseases	Conduct respiratory function tests to prevent bronchial asthma and determine bronchodilation
	Indicate active anterior rhinomanometry to measure airflow and pressure in the nasal cavities during breathing
	Apply the FeNO test (exhaled nitric oxide) to indirectly measure the degree of inflammation in the airways
	Perform tests for specific IgE antibodies, cellular mediators of inflammation, and anaphylaxis mediators
	Use molecular diagnostic techniques by components for allergic diseases
Main Pharmacological Groups for the Treatment of Allergic Pathology	Use beta-lactam antibiotics for various allergic conditions
	Treat allergies with non-steroidal anti-inflammatory drugs (NSAIDs)
	Indicate anticoagulants for patients with severe respiratory allergies
	Apply proton pump inhibitors to manage allergies
	Diagnose pseudoallergic and idiosyncratic drug reactions
Epidemiology, Diagnosis, and Treatment of Respiratory Allergic Diseases	Perform endoscopic nasosinusal surgery to intervene in nasosinusal polyposis
	Indicate biological drugs for the treatment of asthma
	Treat asthma with thermoplasty
	Apply arterial blood gas analysis and bronchoscopy in patients with eosinophilic bronchitis
Immunodeficiencies in Allergology and the Future of the Specialty	Use antibiotic therapies against the fungus causing allergic bronchopulmonary aspergillosis
	Conduct tests to measure Alpha-1 Antitrypsin deficiency to prevent diseases such as emphysema and chronic obstructive pulmonary disease (COPD)
	Treat cutaneous mastocytosis with state-of-the-art antihistamine therapies
	Measure D-xylose absorption in the laboratory to determine signs of celiac disease
	Indicate Immunotherapy with peptides for various allergic pathologies
	Apply Immunotherapy, combined with biological drugs, to control allergic rhinitis and asthma

05

Where Can I Do the Internship Program?

TECH has selected internationally renowned hospital centers for professionals to complete this Internship Program. During this in-person, intensive 3-week residency, specialists will have access to the most distinguished experts in the field of Allergology. They will also have the opportunity to work with cutting-edge technologies that facilitate the diagnosis and treatment of these conditions. At the same time, allergists will be able to directly apply these procedures and competencies to real cases involving various respiratory, food, or skin disorders.

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Enroll in this program, and you will expand your competencies for the proper management and interdisciplinary approach to allergic diseases”





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



Medicine

CSIC

Country
Spain

City
Madrid

Address: Calle Serrano, 117, chamartin,
28006 Madrid

Spanish State Agency for Scientific Research
and Technological Development

Related internship programs:
- Allergology



Medicine

UDAM (Unidad Diagnóstico de Alergia Medicamentosa) Clínica Corachan

Country
Spain

City
Barcelona

Address: Clínica Corachan, Carrer de les Tres Torres
7, 08017 Barcelona

Medical Society, which treats allergic patients
in all their conditions

Related internship programs:
- Allergology



Medicine

UDAM (Unidad Diagnóstico de Alergia Medicamentosa) Hospital Cima

Country
Spain

City
Barcelona

Address: Hospital CIMA, Passeig Manuel Girona 33,
08034 Barcelona

Medical Society, which treats allergic
patients in all their conditions

Related internship programs:
- Allergology



Medicine

UDAM (Unidad Diagnóstico de Alergia Medicamentosa) Hospital General de Catalunya

Country
Spain

City
Barcelona

Address: Hospital General de Catalunya, Calle Pedro
i Pons 1, 08174 Sant Cugat del Vallès

Medical Society, which treats allergic patients
in all their conditions

Related internship programs:
- Allergology



Medicine

UDAM (Unidad Diagnóstico de Alergia Medicamentosa) Hospital Quironsalud del Vallès

Country
Spain

City
Barcelona

Address: Hospital Quirónsalud del Vallès, Passeig
Rubió i Ors 23, 08208 Sabadell

Medical Society, which treats allergic patients
in all their conditions

Related internship programs:
- Allergology



Medicine

UDAM (Unidad Diagnóstico de Alergia Medicamentosa) Hospital Universitari Sagrat Cor

Country
Spain

City
Barcelona

Address: Hospital Universitari Sagrat Cor, Calle París
83, 08029 Barcelona

Medical Society, which treats allergic patients
in all their conditions

Related internship programs:
- Allergology

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 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 internship department at TECH 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**

Allergology 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 Allergology**

Duration: **3 weeks**

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

Credits: **4 ECTS**





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