

Internship Program Veterinary Ophthalmology in Small Animals



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Internship Program
Veterinary Ophthalmology
in Small Animals

Index

01

Introduction

p. 4

02

Why Study an
Internship Program?

p. 6

03

Objectives

p. 8

04

Educational Plan

p. 12

05

Where Can I Do the
Internship Program?

p. 14

06

General Conditions

p. 18

07

Certificate

p. 20

01 Introduction

Thanks to the continuous advances that have been made in the veterinary area, specialties such as Ophthalmology have seen their field of action grow, implementing to their clinical, diagnostic and therapeutic strategies more and more specific techniques depending on the species. Moreover, they not only intervene in cases where the disease is advanced, but also in a preventive way to avoid the development of pathologies related to the ocular field. For this reason, and in order that professionals in this field can catch up on the latest developments, TECH has launched an eminently practical experience that will serve the graduate to catch up on advances in ophthalmological care through 120 hours of stay in a veterinary center of international prestige.



An opportunity to get up to date on the best and most innovative veterinary diagnostic and treatment tests, as well as ophthalmic microsurgery that you can't miss"





Veterinary Ophthalmology is one of the most demanded specialties within the animal clinical care. It is a complex field that includes a wide range of embryological, anatomical, physiological and pharmacological aspects, and many advances have been made in recent decades in relation to the management of different species. For this reason, and in view of the incessant clinical development related to exploration, diagnosis, surgery and treatment, TECH has decided to design a program through which the veterinarian can get up to date with them through an internship program in a reference center. In this way, this program arises, which will provide you with the opportunity to work actively for 3 weeks in a specialized practice where you will have access to the most avant-garde and sophisticated technology in the current environment.

This is a unique experience to perfect your professional skills in the hands of a specialized team in Veterinary Ophthalmology through 120 hours of an Internship Program. Additionally, they will have the supervision and guidance of an assistant tutor, who will ensure that all the objectives for which this program was designed are met. Therefore, TECH guarantees a quality stay of the highest level, with which they will undoubtedly be able to work intensively on updating their knowledge in ocular matters of small animals: pets and exotic species (rabbits, guinea pigs, frogs, mice, etc.).

During this period, they will be able to care for patients with glaucoma, as well as systemic pathologies or those affecting the uvea, retina, crystalline lens, cornea, nictitating membrane and orbit through the most effective and efficient diagnostic and therapeutic techniques. Additionally, they will be able to actively participate in the different eye surgeries performed and in the proposal of alternatives for the improvement of the patient's vision. It is, therefore, a unique academic opportunity to contribute to the advancement of Veterinary Medicine, as well as to the offer of a clinical service of the highest quality for the different animals.

02

Why Study an Internship Program?

TECH is a pioneer in many aspects, among them, for the design and launching of the Internship Program. It is, undoubtedly, a unique opportunity that the graduate cannot miss if they are looking to update their practice according to the advances in Veterinary Ophthalmology to offer the best service in the current market. Therefore, through 120 hours of stay in a clinical center of reference and under the guidance of the best professionals, they will achieve all their goals, perfecting, in addition, the skills for the specialized management of different species of small animals.



A program that will give you the keys to treat eye health problems in dogs, cats, rodents and many other animals through the most innovative clinical strategies”

1. Updating from the latest technology available

The clinic where the graduate will carry out the internship has the most sophisticated veterinary technology and equipment. TECH places special emphasis on this aspect, in order to guarantee a top level update in which the graduate can implement in their practice the exhaustive and integral management of the clinical and diagnostic tools that are showing the best results so far.

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

The graduate will have an internship tutor versed in the area of Veterinary Ophthalmology. Therefore, they will be able to solve any doubt that may arise during the internship, as well as use their experience in the sector to implement in their praxis the most effective clinical, diagnostic and therapeutic strategies for each case that they will have to handle during the internship program.

3. Entering First-Class Clinical Environments

From the first day, the student will actively participate in the approach to the different cases that come to the consultation. Therefore, and through the supervision of the tutor and the team of which they will be a part, they will be able to work on updating their knowledge and perfecting their skills from the very beginning, making the most of this experience in a guaranteed way.



4. Putting the acquired knowledge into daily practice from the very first moment

The aim of this Internship Program is to ensure that the graduate can work on perfecting their skills, but that they can subsequently apply them in any environment. For this reason, it ensures that the centers in which the internships are carried out will operate according to international veterinary standards, resulting in a professional promotion of a global nature.

5. Expanding the Boundaries of Knowledge

The student will be able to choose where to carry out the practical stay among a variety of centers located in different parts of the world. In this way, they will have the absolute freedom to decide whether to go to a clinic in their own country or to go to another country to work, taking into account not only their skills as a veterinary professional, but also other skills such as language or culture.



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

03

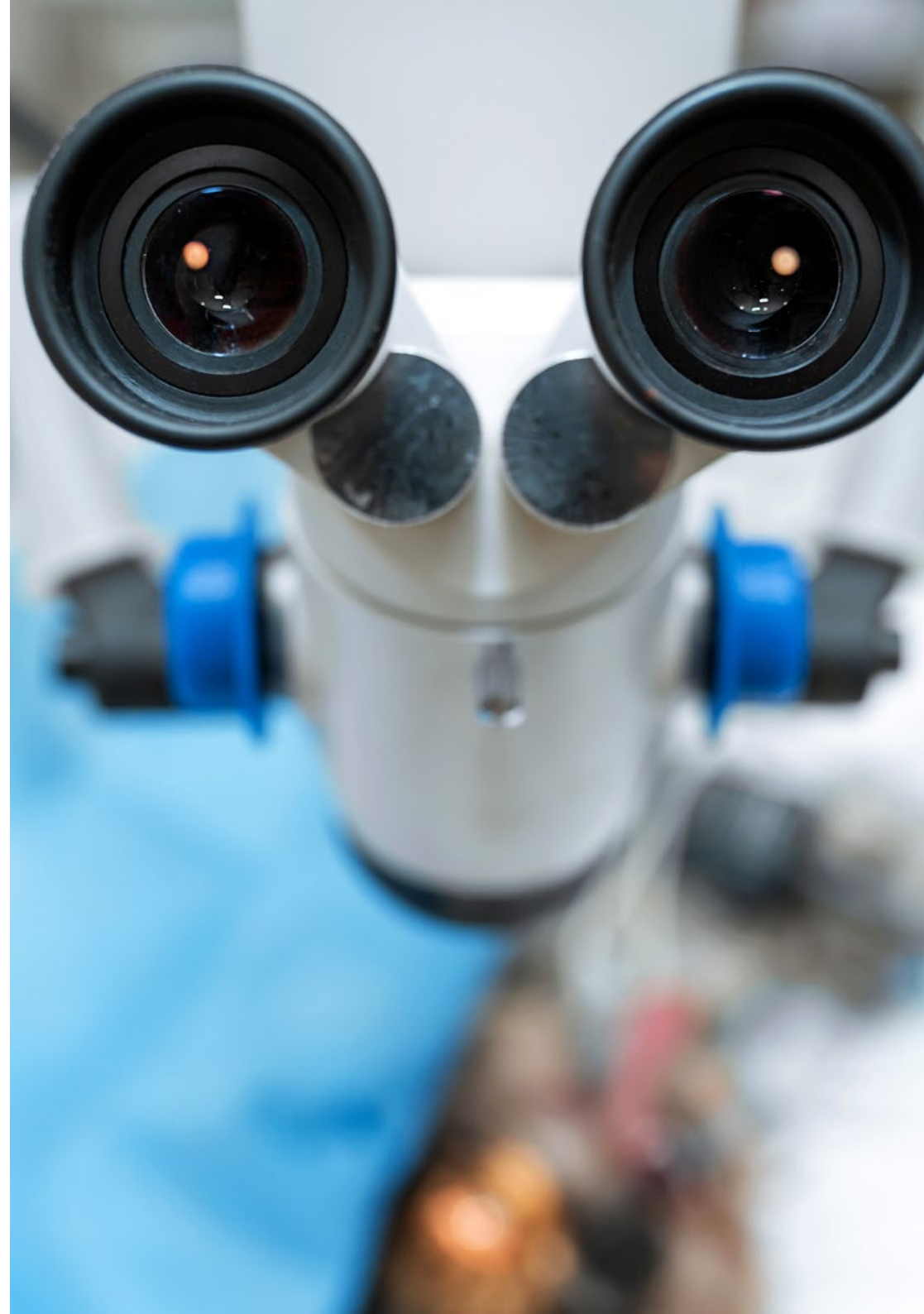
Objectives

This Internship Program in Veterinary Ophthalmology in Small Animals has been developed in order to provide the graduate with a solid and updated basis on ocular anatomy, as well as to establish a correct chronology of the embryology of the eye. In this way, they will be able to carry out an analysis of vision in different species based on the latest developments in the veterinary clinical sector. Additionally, they will be able to delve into the latest advances related to the types of drugs and their routes of administration to optimize their effect.



General Objectives

- Develop a solid foundation of ocular anatomy
- Establish a correct chronology of ocular embryology
- Analyze the physiology of vision and its differences between species
- Specify types of drugs and their routes of administration to optimize their effect
- Identify surgical equipment and devices used in ophthalmic surgery
- Develop an orderly examination protocol





Specific Objectives

- ♦ Lay a solid foundation in ocular anatomy
- ♦ Develop different points of embryology and therefore determine congenital pathologies
- ♦ Determine the differences in the physiology of vision in the different species
- ♦ Examine the process by which images are formed and the properties of the optical systems of the eyeball
- ♦ Evaluate the different therapeutic options according to ocular pharmacology and determine the correct route of administration
- ♦ Compile the anesthetic drugs for ophthalmologic use and know how to use them according to the diagnostic test or surgery to be performed
- ♦ Optimize the collection of data from the patient's anamnesis, as well as from the basic examination tests
- ♦ Demonstrate the uses and information that the correct use of the slit lamp offers us
- ♦ Evaluate the advantages and disadvantages of direct and indirect ophthalmoscopy
- ♦ Establish the basis for the correct use of tonometry and gonioscopy
- ♦ Analyze the different possibilities for anterior and posterior segment imaging for the objective follow-up of the patients' lesions
- ♦ Determine the basics of diagnostic imaging
- ♦ Review drugs for specific exploratory procedures
- ♦ Determine the different methods of exploration and establish diagnostic protocols
- ♦ Identify advances in the approach to orbital and eyelid surgery
- ♦ Incorporate new developments in diagnosis and treatment
- ♦ Examine pathophysiology
- ♦ Develop specialized knowledge on congenital and acquired pathologies
- ♦ Generate skills for the surgical approach to the orbit and eyelids
- ♦ Examine the normal anatomy and function of the conjunctiva and lacrimal system
- ♦ Determine the most common clinical signs
- ♦ Analyze the different diagnostic methods and establish protocols
- ♦ Generate diagnostic knowledge of tear film examination
- ♦ Develop the different pathologies related to tear film alterations
- ♦ Present the latest surgical techniques for the resolution of pathologies affecting the nictitating membrane
- ♦ Generate specialized knowledge of the different medical and surgical treatments of the lacrimal system
- ♦ Analyze physiologic corneal repair mechanisms
- ♦ Accurately recognize changes in color, rims and visual "texture" characteristic of each corneal pathologic response
- ♦ Classify and categorize corneal ulcers
- ♦ Develop the general and specific treatment principles for each type of corneal ulcer
- ♦ Describe the different corneal surgical techniques and evaluate their advantages and disadvantages
- ♦ Compile and elaborate on the most common non-ulcerative corneal pathologies in dogs and cats
- ♦ Identify the various corneal manifestations of systemic diseases
- ♦ Present the different neoplasms of corneal localization
- ♦ Develop the pathologies that can affect the sclera and their treatment
- ♦ Identify advances in the approach to cataract surgery

- Compile the basics of setting up an operating room for microsurgery
- Identify the use of different drugs for intraocular surgery
- Offer tips for the management of intraoperative, preoperative and postoperative complications of lens surgery
- Determine the structures involved in uveal inflammation
- Analyze the involvement of systemic diseases and uveal involvement
- Develop a diagnostic plan based on the uveal changes observed in the patient
- Review the ophthalmologic examination for the diagnosis of anterior uveitis
- Discuss how to localize the primary involvement of the uveal abnormality
- Determine whether the disease is ophthalmologic or systemic
- Establish the differential diagnosis according to systemic and ocular clinical signs
- Propose possible complementary tests according to the established differential diagnosis
- Present and establish a treatment plan to deal with uveal disease in our patient
- Establish a possible protocol for retinal lesions secondary to systemic conditions
- When faced with a blind eye, discern whether the problem is retinal or neurological
- Delve into the ocular anatomical characteristics of different exotic species
- Analyze the most appropriate exploratory methods for each species
- Generate a base of the ocular anatomical characteristics to be able to discern even the most subtle symptoms that may be causing a pathology
- Present the different therapeutic approaches in order to propose the most appropriate for the species





- ◆ Generate skills for the surgical approach of the different species
- ◆ Examine the different types of glaucoma, as well as intraocular fluid dynamics
- ◆ Optimize the use of diagnostic tools such as tonometry and gonioscopy to obtain key data for further treatment
- ◆ Analyze the effect of elevated intraocular pressure on the different intraocular structures
- ◆ Recognize ocular signs related to systemic disease
- ◆ Describe the systemic diseases commonly found in small species
- ◆ Establish a diagnostic plan

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If your goals include acquiring a solid, up-to-date foundation in animal ocular anatomy through intervention in different species, this program is perfect for you”

04 Educational Plan

The syllabus of this Internship Program in Veterinary Ophthalmology in Small Animals developed by TECH includes a practical period in a veterinary clinical center of international reference. It is an experience of 120 hours distributed over 3 weeks in which the graduate will be part of a top level team from Monday to Friday with 8 consecutive hours of work. during which they will have the support of an assistant specialist who will ensure that the objectives for which this program was developed are met.

In this way, the student will be able to actively participate in the day to day of an ophthalmologic practice, handling small animals and intervening in their diagnosis and treatment. All this, through the most avant-garde clinical technology and with the security of using the newest veterinary techniques in the current sector. Therefore, not only will you be able to keep up to date with the most effective strategies, but you will also be able to perfect your professional skills in a guaranteed way.

It is, therefore, a unique opportunity to implement a distinguished and top-level practice in your practice thanks to the support of a team of veterinary ophthalmologists with a long and extensive experience in the field. Additionally, you will be updated on the most frequent ocular conditions in the daily practice, as well as on the most effective treatments for each case, contributing to offer a better service for pets and, therefore, providing greater peace of mind to their owners.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of skill (learning to learn and learning to do), with the accompaniment and guidance of teachers and other training partners that facilitate teamwork and multidisciplinary integration as transversal skills for the veterinary praxis (learning to be and learning to relate).

The procedures described below will be the basis of the practical part of the training, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:



Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"



Module	Practical Activity
Update on embryology, anatomy, physiology of vision and pharmacology	Practice with real anatomical models: pig eyes and deceased skulls
	Conduct study rounds
	Address the most up-to-date pharmacological criteria through supervised drug regimen for specific ocular pathologies
Eyelid and conjunctival membrane surgery	Participate in eyelid surgeries in different species
	Approach different pathologies through the most effective surgical techniques for this
	Work actively in conjunctival surgeries
	Handle clinical cases seen in consultation
	Practice with real anatomical models of deceased patients
Diseases of the crystalline lens, of the uvea and retina, and surgical intervention	Participate in lens surgeries and surgeries related to uveal diseases
	Work in the diagnosis of the different pathologies related to the retina, uvea and crystalline lens
	Treat the various patients attending the practice with pathologies related to this area
	Update the pharmacological catalog of specialized drugs for the different diseases in the post and pre-surgical period
Veterinary in exotic animals	Deal with the different cases related to exotic animals attending the practice
	Update the student's knowledge on the pros and cons of the application of different strategies in different species
	Handle the most specialized tools for each species, providing the maximum wellbeing of the patients that come to the practice
Ophthalmologic examination and complementary tests: glaucoma	Participate in glaucoma surgeries
	Participate in clinical cases that are seen in consultations
	Practice with real anatomical models of deceased patients
	Address the operation of each component of the practice in the use of the different clinical strategies
	Handle specialized apparatus for each complementary test

05

Where Can I Do the Internship Program?

The specialist who chooses this Internship Program will have access to a 3-week stay in a prestigious center in the field of Veterinary Ophthalmology. It is, therefore, a unique opportunity to be part of a team of the highest level composed of experts in the sector with a wide and extensive experience. Additionally, TECH ensures that all the companies have the most advanced and innovative clinical technology, so that the specialist can also update their knowledge, improving their practice based on the management of the most complex and sophisticated clinical tools in the current environment.



You will be able to work with the most innovative and accurate diagnostic strategies for the treatment of systemic diseases and glaucoma in a clinical center of international reference”





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



Veterinary-medicine

Clínica Veterinaria Unzeta

Country City
Spain Madrid

Address: C. de Ferraz, 28, 28008 Madrid

Veterinary clinical assistance center for domestic animals

Related internship programs:

- Internal Medicine in Small Animals
- Veterinary Oncology in Small Animals



Veterinary-medicine

Hospital Veterinario Menes

Country City
Spain Asturias

Address: Calle Daniel Palacio Fernández, 15, 33204 Gijón, Asturias

Veterinary clinic with exclusive dedication to companion animals

Related internship programs:

- Internal Medicine in Small Animals
- Veterinary Ophthalmology in Small Animals



Veterinary-medicine

Happy Can Camp

Country	City
Mexico	Puebla

Address: Km 4.5 lateral Recya a Cholula Col. Bella Horizonte Puebla C.P. 72170

Veterinary clinic and hotel

Related internship programs:

- Veterinary Radiology in Small Animals
- Veterinary Ophthalmology in Small Animals



Veterinary-medicine

Meds for pets

Country	City
Mexico	Nuevo Leon

Address: Av. Venustiano Carranza 429 Centro C.P 64000

Veterinary Hospital for advanced and comprehensive care

Related internship programs:

- Veterinary Cardiology in Small Animals
- Ecography for Small Animals



Veterinary-medicine

Hospital Veterinario Reynoso

Country	City
Mexico	Mexico

Address: Guillermo roja No.201 Col. Federal Toluca Edomex

High specialty veterinary hospital

Related internship programs:

- Anesthesiology and Veterinary
- Management and Direction of Veterinary Centers



Veterinary-medicine

Aztekan Hospital Veterinario - Roma

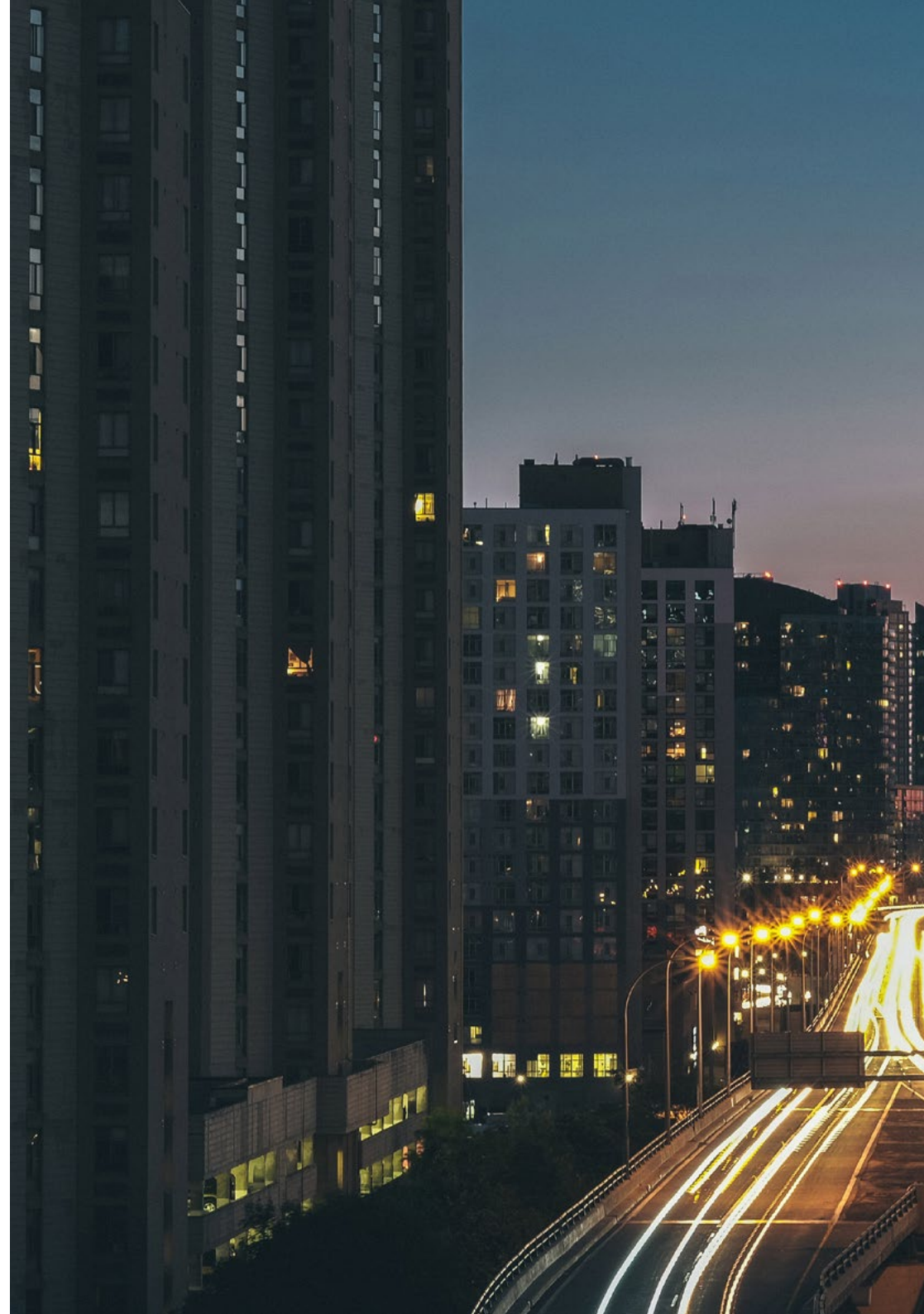
Country	City
Mexico	Mexico City

Address: San Luis 152 Col Roma C.P CDMX

24-hour Veterinary Hospital

Related internship programs:

- Veterinary Emergencies in Small Animals
- Veterinary Cardiology in Small Animals





Veterinary-medicine

Aztekan Hospital Veterinario - Sur

Country	City
Mexico	Mexico City

Address: Circuito Estadio Azteca #298
Pedregal de Santa Ursula C.P 04600 CDMX

24-hour Veterinary Hospital

Related internship programs:

- Veterinary Emergencies in Small Animals
- Dermatology in Small Animals



Veterinary-medicine

Aztekan Hospital Veterinario - Nápoles

Country	City
Mexico	Mexico City

Address: Nebraska 151 Colonia Nápoles C.P
03810 CDMX

24-hour Veterinary Hospital

Related internship programs:

- Equine Medicine and Surgery
- Veterinary Emergencies in Small Animals

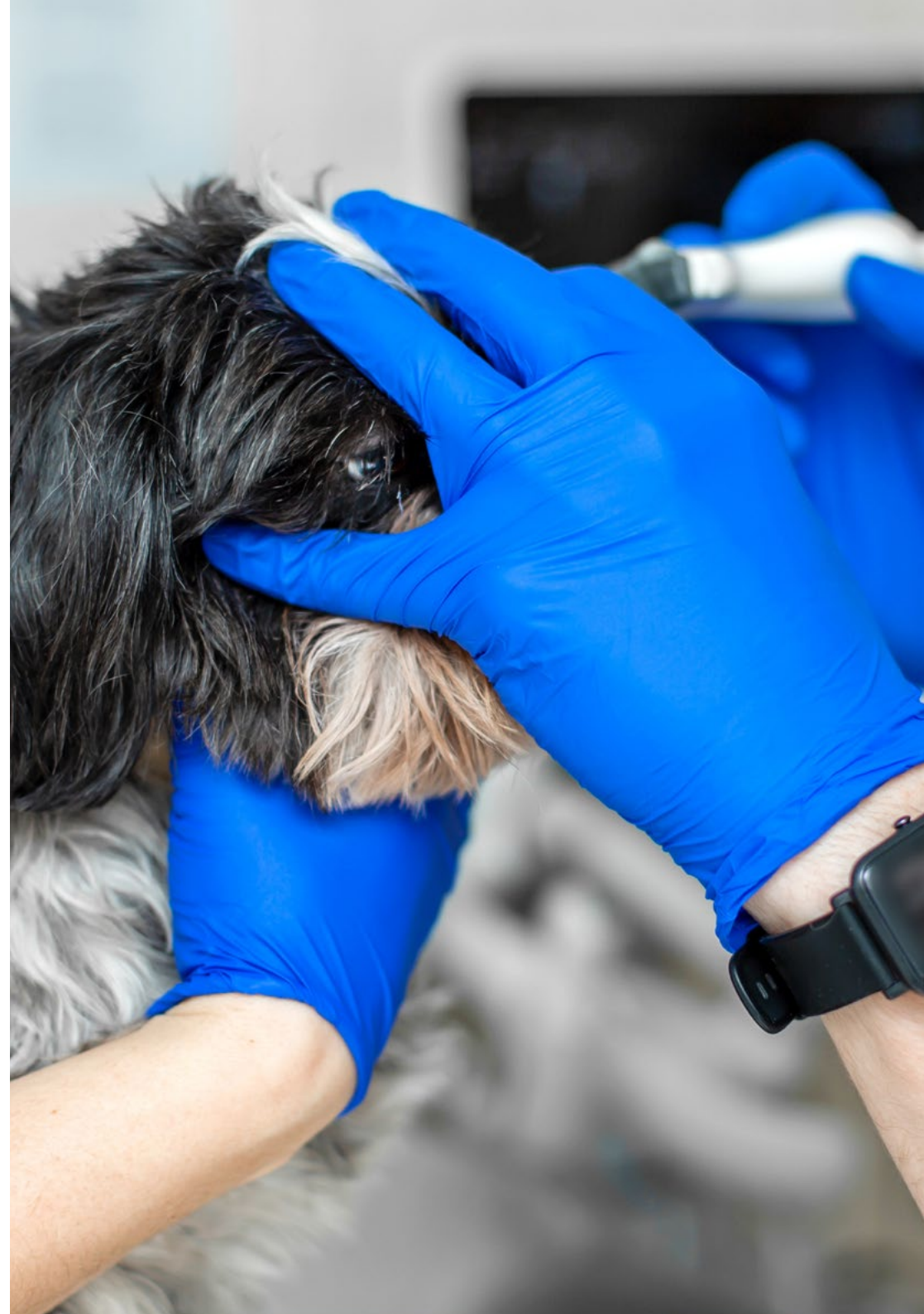
06 General Conditions

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 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 **Internship Program in Veterinary Ophthalmology in Small Animals** contains the most complete and up-to-date program in the professional and academic landscape.

After the student has passed the assessments, they will receive their corresponding Internship Program diploma issued by TECH Technological University via tracked delivery*.

The certificate issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Veterinary Ophthalmology in Small Animals**

Duration: **3 weeks**

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

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



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