





Internship Program
Veterinary Anesthesiology

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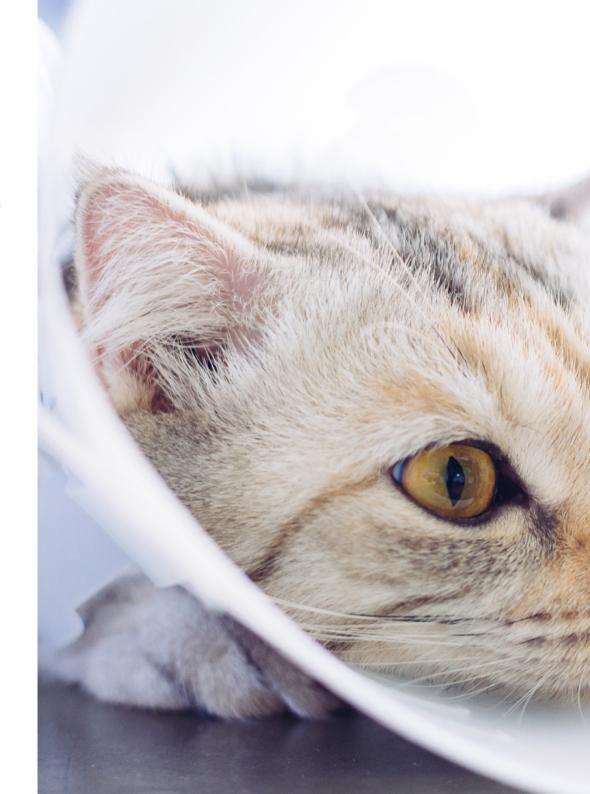
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# 01 Introduction

Veterinary practice has undergone countless changes in the last decade, implementing increasingly specific, effective and safe procedures for animal health in its clinical techniques and strategies. A very clear example of this is the area of Anesthesiology, in which advances have been made in favor of an increasingly specialized assistance according to the physiology and requirements of the patient's organism. For this reason, TECH has developed a refresher program in this context based exclusively on practice, in which the graduate will be able to catch up in a 120-hour stay with a team versed in veterinary medicine and anesthesiology. Therefore, you will have access to 3 weeks of activity in a clinical center of international reference, where you will find the latest surgical and technical equipment of the moment.



TECH presents this program as a unique opportunity to be part of a top level team in the field of anesthesiology for 3 weeks"





Veterinary Anesthesiology is one of the most complex areas within clinical animal care, as it requires an exhaustive mastery of pharmacology, as well as of the physiology of the species, since treatment in excess of what is recommended can cause fatal consequences. Therefore, professionals in this field are constantly updating their knowledge, motivated, in addition, by the continuous advances that are carried out every year in favor of the welfare and health of the animal.

The objective of this 120-hour Internship Program is to learn about all aspects of Veterinary Anesthesiology intervention. Through a broad methodological development, during which you will be able to learn each and every one of the fundamental points in this area of work, the graduate will be able to keep up to date with the latest developments in his or her profession. In this sense, the Internship Program includes the phases prior to the application of anesthesia on the patient: knowledge of the equipment, previous handling of the patient, medication and drug interactions. Likewise, it deepens in the study of the physiology more related to anesthesia, focusing on the involvement of the Cardiocirculatory, respiratory, nervous system and endocrine systems will also occupy part of this Internship Program.

All this will take place over 3 weeks with the support of an exclusive tutor, who is defined as an expert in the field. Thanks to this, the graduate will be able to get the most out of the experience, in addition to having your supervision for a safe practice at the highest level. In this way, you will be able to keep up to date with the latest developments in anesthesiology and perfect your skills in the use of the most sophisticated clinical equipment in today's clinical environment.

# 02 Why Study an Internship Program?

The elite of the veterinary sector has participated in the design of the structural plan of this Internship Program, in order to conclude with the offer of a unique and motivating experience for the specialist. This is an exclusive opportunity that TECH offers its graduates to be part of a group of top-level professionals, with whom they will be able to keep up to date in a guaranteed way. This will allow you to work safely on perfecting your skills, delving into the latest advances in the management of the different species during the 3 weeks of the program.



The best program in the current academic market to work in the control of anesthetic times in situ, in a clinic of the highest prestige"

# 1. Updating from the Latest Technology Available

TECH ensures that the clinics where the graduate will be able to carry out their internship and have the most advanced clinical technology. This is because one of the objectives of these programs is to ensure that they perfect their skills in the exhaustive handling of specialized equipment, which is why special emphasis is placed on the centers having such equipment.

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

From minute 0 until the end of the internship, the graduate will have the support and supervision of a tutor, who will be assigned to ensure that all the objectives for which this Internship Program was designed are met. In this way, the specialist will be able to develop in a secure manner, guided by the experience of these experts for a comprehensive and first-class update.

# 3. Entering First-Class Clinical Environments

The Internship Program in Veterinary Anesthesiology will provide the graduate with the opportunity to manage in a leading role the different cases that come to the practice. In this way, and working side by side with the best professionals, you will be able to perfect your skills in the application of treatments and in the control of vital signs, raising your talent to the highest level in only 3 weeks.



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

The plan for this Internship Program has been designed in such a way that everything that is covered during the 3 weeks can be perfectly applicable to any context outside the environment in which the stay will take place. The centers contracted by TECH are based on international protocol clinical strategies.

# 5. Expanding the Boundaries of Knowledge

The course of this Internship Program, in addition to providing the graduate with the possibility of keeping up to date with the latest developments in their profession, gives them the opportunity to do so in centers of international scope located in different parts of the world. Therefore, if you wish, you can move to another country during this period, enjoying an experience of the highest level both from a professional and personal point of view.



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

# 03 Objectives

This Internship Program aims to help professionals access a much higher level of competence and control in Veterinary Anesthesiology. A goal that, in just 3 weeks, will be able to achieve through a highly intense and precise a practical stay In this way, the professional acquires greater competencies in a highly demanded field and in a center with great experience and the best medical equipment.



# **General Objectives**

- Know and understand the main mechanical parts of the anesthesia machine and the importance of the preparatory management of the patient in terms of drugs and feeding
- Use tables for the preparation of combinations of anesthetic or anesthesiarelated drugs
- Learn and understand the physiology of nociceptive and acute and chronic pain
- Acquire a logical understanding of the physiological implications of untreated pain







# **Specific Objectives**

- Know the origins of the specialty in human medicine and its incorporation into the veterinary field
- Know the guidelines and importance of perioperative management of feeding of the surgical patient and fasting of solids and liquids
- Know and understand the operation of anesthetic machines and mechanical ventilators
- Know and understand the ventilatory, cardiovascular, digestive, renal, endocrine, nervous (both central and peripheral) physiology and the age-related modifications of these
- Know and understand the general pharmacological processes and those directly related to each of the pharmacological families related to anesthesia (sedatives, analgesics, inducers, neuromuscular relaxants,)
- Practical knowledge of the different phases of anesthesia from preoperative assessment to patient awakening and the main postoperative care
- Know the characteristics of premedication, induction, maintenance and education to minimize anesthetic risks as much as possible
- Understand in a practical way the differences during the maintenance phase in the case of inhalation and intravenous anesthesia
- Know the characteristics and indications of perioperative fluid therapy and the administration of blood products

# 04 Educational Plan

The Practical Training of this program in Veterinary Anesthesiology consists of a practical stay in a veterinary referral center, lasting 3 weeks, from Monday to Friday with 8 consecutive hours of practical training with an assistant specialist. This stay will allow the graduate to see real cases alongside a professional team of reference in the veterinary area of anesthesiology, applying the most innovative state-of-the-art procedures.

In this Internship Program, completely practical in nature, the activities are aimed at the development and improvement of the competencies necessary for the provision of veterinary care in areas and conditions that require a high level of qualification, and are oriented to the specific training for the exercise of the activity, in a safe environment and high professional performance.

It is undoubtedly an opportunity to learn by working with the best experts in the field of Veterinary Anesthesiology, who perform their work in renowned clinics, with the best medical facilities. All this makes for an ideal teaching scenario for the student, who will enjoy the experience while perfecting professional veterinary skills for the 21st century.

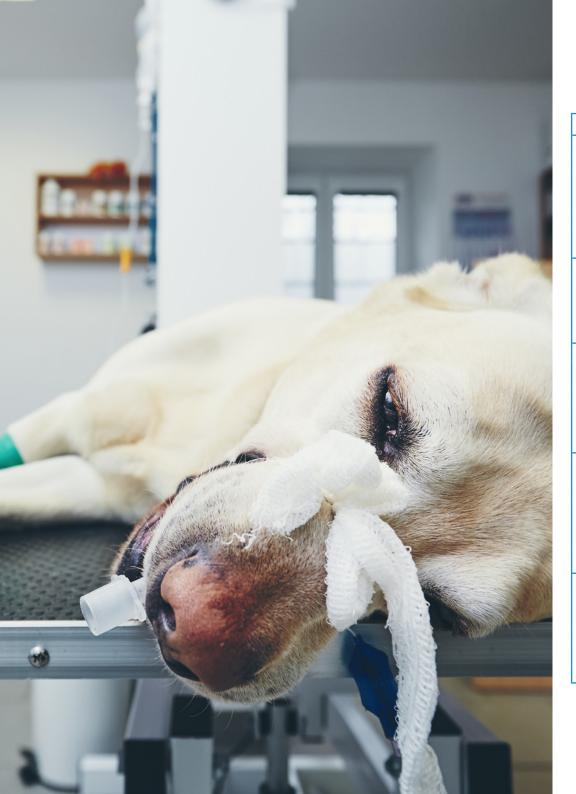
Practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of Veterinary Anaesthesiology (learning to be and learning to relate).

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



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"





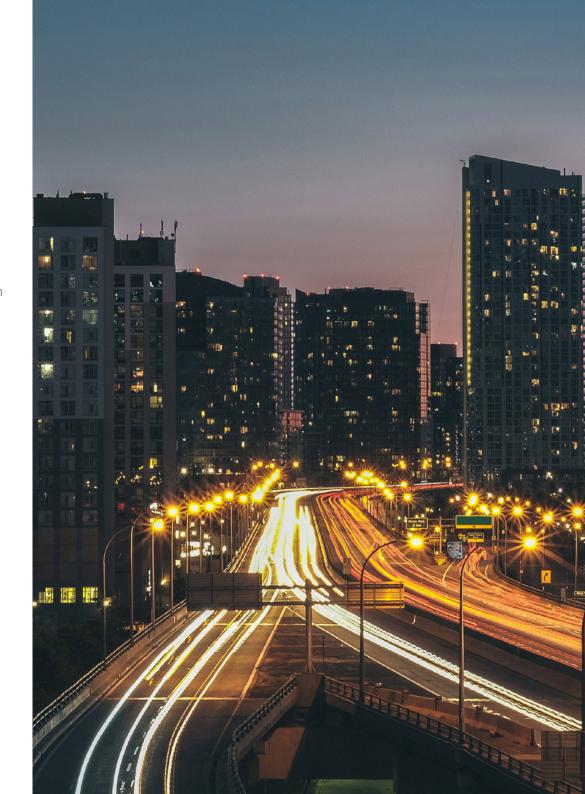
Module	Practical Activity			
Equipment Management Anesthetics	Internship in Patient Optimization Dental			
	Evaluate perioperative medication			
	Practice in the handling of drug delivery systems: inhaled delivery systems, basic systems, volumetric infusion pumps and perfusors			
	Conduct patient warming system analysis			
	Examine endotracheal tubes and other intubation systems: endotracheal tubes, supraglottic devices and laryngoscope			
Update in Physiology and Pharmacology Related to Anesthesia	Analyze ventilatory, cardiovascular, neurological (central and autonomic nervous system), renal (acid/base balance), gastrointestinal and endocrine physiology			
	Conduct examinations of age-related physiological changes: ventilatory, cardiovascular, nervous system, endocrine and other anesthesia-related changes			
	Evaluate pharmacology and anesthesia: inhalation drugs and non-inhalation drugs			
Control of anesthetic times	Assess the pre-anesthetic area and anesthetic risk.			
	Conduct an analysis of drugs in premedication: sedatives, opioids, alpha-2 agonists, benzodiazepines, aines and others			
	Develop the practice of intubation: drugs in induction and intubation maneuver			
	Analyze inhalation, intravenous and partial anesthesia			
	Assessing mechanical ventilation: controlled and assisted ventilatory modes			
Local and locoregional Analgesia	Analyze the physiology of pain: nociceptive pathways, peripheral sensitization and central sensitization			
	Assess chronic pain: osteoarthrosis and oncological pain, neuropathic pain			
	Conduct an analysis of Opioid Analgesics			
	Practices in the Locoregional Anesthesia: Anatomical Localization, Neurolocalizer, Ultrasound			
	Evaluate head blocks: maxillary nerve block, mandibular nerve block, ophthalmic blocks and blocks related to the pinna			
Anesthetic Complications Monitoring and Control	Practice in basic monitoring: palpation, observation, auscultation and temperature monitoring			
	Conduct blood pressure analysis, ventilatory monitoring and hypnosis			
	Examine the monitoring of nociception			
	Analyze regurgitation, aspiration, hypotension and hypertension			
	Conduct a hypocapnia and hypercapnia test			

# 05 Where Can I Do the Internship Program?

In its maxim of offering a unique experience where the student can put into practice the theoretical knowledge learned, TECH gives you the opportunity to choose between several renowned veterinary centers to undertake this Internship Program. In this way, it adapts to the needs of the student and contributes to the updates in Veterinary Anesthesiology in several areas of the national territory.



Become a successful professional in Veterinary Anesthesiology by learning from the best in the industry. Take your career to the next level by professionally, specializing with TECH"



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



## Centro Veterinario San Antón

Country City

Spain Madrid

Management: Avenida de la Libertad, 93. Local 14-16, 28770 Colmenar Viejo

Veterinary Center offering personalized attention to different animal species.

#### Related internship programs:

-Veterinary Anesthesiology - Veterinary Cardiology in Small Animals



## Veterinarea Hospital Veterinario Villalba

Country City
Spain Madrid

Management:

Avenida de Reina Victoria nº 9 28430 Alpedrete, Madrid

Clinical Symptoms Veterinarian Specialised in exotic

#### Related internship programs:

-Veterinary Anesthesiology -Veterinary Emergencies in Small Animals



#### Centro Veterinario Fuente del Moral

Country City Spain Madrid

Management: Avda. de la Salud, 12, 28411 Moralzarzal

The veterinary center specializing in the care of dogs and cats

#### Related internship programs:

-Veterinary Anesthesiology - Small Animal Ultrasonography



# **Madrid Este Hospital Veterinario**

Country City
Spain Madrid

Management: Paseo de la Democracia, 10

Veterinary center offering 24-hour care with surgery, ICU, hospitalization and diagnostic imaging services. and diagnostic imaging services.

#### Related internship programs:

-Veterinary Anesthesiology - Veterinary Surgery in Small Animals



# Hospital Artemisa Cañaveral

Country City
Spain Madrid

Management: Francisco Grande Covian, local 1, 28052 Madrid

Veterinary Hospital specialized in General and care of 24 hour emergency service

#### Related internship programs:

Professional Master's Degree in Veterinary Surgery in Small Animals



# Hospital Veterinario Assistencia veterinaria Vic

Country City
Spain Barcelona

Management: Carrer de Cervera, 6, Bajo; Pol.Ind, 08500 Vic, Barcelona

Clinic specialized in services such as Surgery, Diagnostic Imaging, Laboratory and Intensive Care, among others.

#### Related internship programs:

- Physiotherapy and Rehabilitation of Small Animals
- Small Animal Ultrasonography



### Veterinario Sant Morí MiVet

Country City
Spain Barcelona

Management: Av. d'Alfons XIII, 571, 08918 Badalona, Barcelona

Veterinary Hospital in Badalona Barcelona with 24h attention 365 days a year

#### Related internship programs:

-Veterinary Anesthesiology - Small Animal Ultrasonography

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# Hospital Veterinario Stolz Valencia

Country City
Spain Valencia

Management: C/ de Pintor Stolz, 67 Valencia

Reference clinic in the veterinary sector with more than 20 years of experience and 24 hours a day, 365 days a year service.

#### Related internship programs:

-Veterinary Anesthesiology - Veterinary Traumatology and Orthopedic Surgery



# Hospital Veterinario Mon Can MiVet

Country City
Spain Madrid

Management: Av. de Montecarmelo, 55, 28049 Madrid

Veterinary Hospital specializing in the comprehensive care of the sick animal and in clinical problems difficult to diagnose

#### Related internship programs:

- Veterinary Traumatology and Orthopedic Surgery - Veterinary Emergencies in Small Animals



## Hospital Veterinario Avenida MiVet

Country City
Spain Vizcaya

Management: Sabino Arana Etorbidea, 18 48013 Bilbao, Bizkaia

General veterinary clinic with 24-hour service 24 hours a day

### Related internship programs:

-Veterinary Anesthesiology - Veterinary Emergencies in Small Animals







## Centro Veterinario Puebla

City Country Puebla Mexico

Management: Calzada zavaleta 115 Local 1 Santa Cruz Buenavista C.P 72154

Veterinary Centers a generalist to care of 24 hour emergency service

#### Related internship programs:

-Veterinary Anesthesiology - Veterinary Cardiology in Small Animals



# Hospital Veterinario Paraíso Animal

City

Puebla Mexico

Management: Antiquo Camino Real a Cholula 99-B

Villas de Zabaleta C.P 72176 Heroica Puebla de Zaragoza. Puebla México

High level Veterinary Hospital with a wide range of services in the different specialties

#### Related internship programs:

- Veterinary Surgery in Small Animals -Veterinary Anesthesiology



## Pets, life & Care

Country City Mexico Nuevo León

Management: Av. Cabezada 10701-L12 Barrio acero C.P 64102

Comprehensive Care Veterinary Hospital

#### Related internship programs:

- Small Animal Ultrasonography - Veterinary Emergencies in Small Animals



# Hospital Veterinario Reynoso

Country City Mexico Mexico

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

High specialty veterinary hospital

#### Related internship programs:

- and Veterinary Anesthesiology

- Management and Administration of Veterinary Centers



#### Centro Veterinario CIMA

Country Mexico Mexico City

Management: Av. Vía Adolfo López Mateos 70, Jardines de San Mateo, 53240 Naucalpan de Juárez, CDMX, Méx.

Clinical pet care center

#### Related internship programs:

- Small Animal Internal Medicine - Veterinary Oncology in Small Animals



#### Clínica Veterinaria Luifran

Country Mexico Mexico City

Management: Nte. 7-A 4634, Defensores de la República, Gustavo A. Madero, 28001 Ciudad de México, CDMX

Veterinary assistance center specialized in dogs and cats.

### Related internship programs:

-Veterinary Anesthesiology - Infectious Diseases in Small Animals



# Dog City Pet Hospital

Country City Mexico Mexico City

Management:

Lago Ginebra 145, Pensil Sur, Miguel Hidalgo, CP 11490

> The veterinary center specializing in the care of dogs

### Related internship programs:

-Veterinary Anesthesiology - Veterinary Emergencies in Small Animals



### Veterinaria Palo Verde

Country Mexico Mexico City

Management: Cerro del Otate 20, Romero de Terreros, Coyoacán, 04310 Ciudad de México, CDMX

Clinical Veterinary with more than 30 years of experience in care to

#### Related internship programs:

- Small Animal Internal Medicine -Animal Welfare

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# **SAVET Sanatorio Veterinario**

Country City
Argentina Río Negro

Management: Santa Cruz 1515 General Roca, Río Negro

Veterinary clinic with state-of-the-art supplies and materials of the latest generation

### Related internship programs:

-Veterinary Anesthesiology - Veterinary Emergencies in Small Animals



# Clínica Veterinaria Don Bosco

Country City
Argentina Buenos Aires

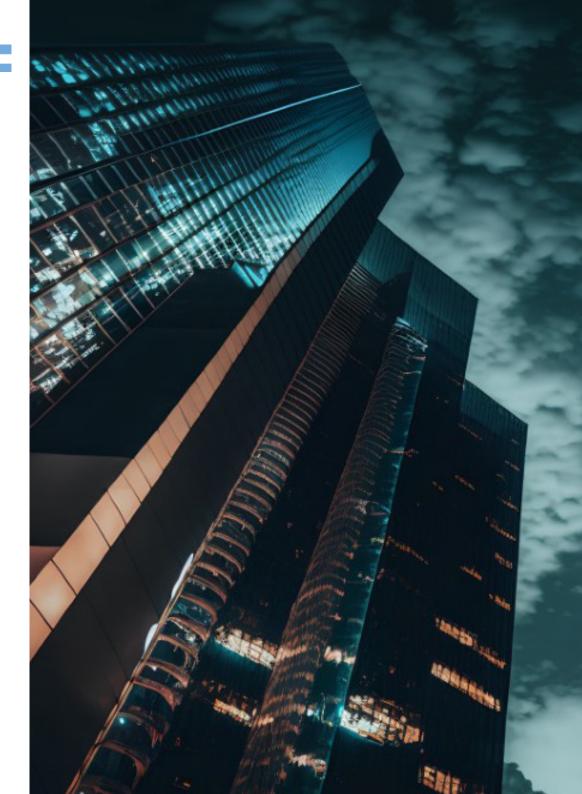
Management: Conquista de Desierto 662, Ezeiza, Bs. As

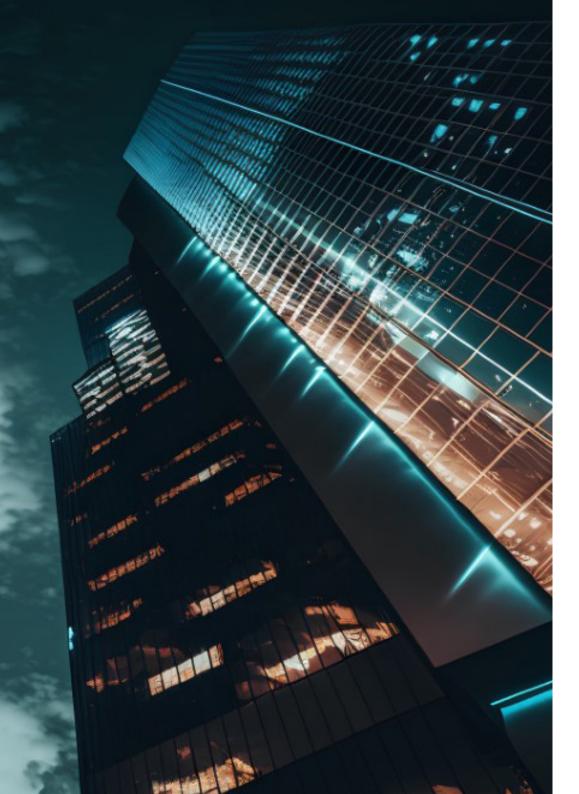
Clinic of general and specific specialties of Veterinary

Medicine

### Related internship programs:

-Veterinary Anesthesiology - Veterinary Emergencies in Small Animals





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Make the most of this opportunity to surround yourself with expert professionals and learn from their work methodology"

# 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 achievingthis 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. 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 program agreement shall be 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 program will allow you to obtain your **Internship Program diploma in Veterinary Anesthesiology** 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** title 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: Internship Program in Veterinary Anesthesiology

Duration: 3 weeks

Attendance: Monday to Friday, 8-hour consecutive shifts

Accreditation: 5 ECTS



Mr./Ms. \_\_\_\_\_, with identification document \_\_\_\_\_ has successfully passed and obtained the title of:

### Internship Program in Veterinary Anesthesiology

This is a program of 120 hours of duration equivalent to 5 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



Rector

qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each countr

nique TECH Code: AFWORD23S techtitute.com/certificate



**Internship Program** Veterinary Anesthesiology

