

# Internship Program

## Avian Medicine and Surgery



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Internship Program  
Avian Medicine and Surgery

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# 01 Introduction

The veterinary approach to birds requires specific knowledge of their anatomy and physiology. Being small animals, in some cases, many of the standard procedures are complicated to perform. Therefore, gaining experience in their care and treatment is of vital importance for the veterinarian who wishes to specialize in the care of this species. Under this premise, TECH has created the present program, in which, in 3 weeks of practical stay, the specialist will be integrated into a multidisciplinary and expert team to catch up on the latest developments in the techniques of Medicine and Surgery in Poultry.

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*Incorporate the latest techniques in Poultry Medicine and Surgery into your daily practice thanks to this hands-on experience with the best professionals in the industry”*







Nowadays, it is increasingly common to find cases involving small birds in veterinary clinics. In addition, taking into account society's growing concern for animal welfare and protection, there are also shelters and sanctuaries that take care of, care for and rehabilitate wild birds for their early release. Therefore, it is essential that the professional has specialized knowledge in this area, as well as sufficient expertise to care for each patient.

Therefore, in this Internship Program, the veterinarian will become familiar with the different diagnostic tests, such as biopsies, hematology and cytology. You will also have access to avian proteinogram and electrocardiography tests, which are essential for an accurate interpretation of the results. In this way, during 3 weeks of continuous learning, the professional will perform basic tests for the evaluation of viral diseases, apply anesthesia in different species of birds and, of course, perform surgical procedures relevant to each case. This is an opportunity in which the specialist will become part of a team of top-level experts, with whom they will work actively and jointly in the approach to the different patients who come to their offices.

In addition, during your stay, you will have the support and guidance of an assistant tutor, who will ensure that all the requirements for which this Internship Program has been designed are met. In addition, this professional has the necessary experience to teach you how to perform each procedure. On this basis, the veterinarian will work with total guarantee and safety, acquiring the most innovative techniques on the market. For all these reasons, this program is the best option for the veterinarian who wishes to take a step further in his or her career and be able to provide care to any species.

# 02

## Why Study an Internship Program?

In the healthcare field, it is essential that postgraduate education provides the specialist with grounded and innovative knowledge so that they can update their technical skills and procedures. To this end, it is not enough to offer theoretical content, but also to provide the tools to put it into practice. In this way, TECH has designed this unique academic product in the current educational panorama, in which the specialist will spend 3 intensive weeks in a real clinical center to put into practice the latest updates on Poultry Medicine and Surgery. Thus, he or she will be integrated into a multidisciplinary work team with highly prestigious experts in the sector, an opportunity in which the specialist is placed at the center of the equation to offer him or her a learning experience adapted to his or her needs.



*Don't miss the opportunity to get into real clinical environments with the best specialists to learn everything you need to know about Poultry Medicine and Surgery"*

### 1. Updating from the Latest Technology Available

Society's growing awareness of animal welfare and protection has led veterinary specialists to seek improvement in poultry health techniques and procedures. For this reason, and with the aim of bringing the specialist closer to the latest developments, TECH presents this Internship Program. With it, the professional will enter a modern clinical environment, where they will have access to the latest technology in the field of Poultry Medicine and Surgery.

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

A team of professionals will be in charge of accompanying the specialist throughout the practical period, which guarantees learning and updating of knowledge under the umbrella of quality and efficiency. In addition, by having a specifically designated tutor, the veterinarian will be able to see real patients, which will allow him/her to incorporate all the effective procedures acquired during this program into his/her daily work.

### 3. Entering First-Class Clinical Environments

This institution has carefully selected all the centers available for Internship Programs. The objective is to offer the student a secure access to a prestigious clinical environment in the field of Avian Medicine and Surgery. In this way, the specialist will be able to delve into the day-to-day work of a demanding and rigorous workspace.





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

With the objective of breaking away from the pedagogical programs that are not very adapted to the daily work existing in the academic market, TECH offers a new learning model that is 100% practical. Through this program, the specialist will be able to combine his or her personal and professional life without any inconvenience, getting in touch with the latest developments in this sector in only 3 weeks.

#### 5. Expanding the Boundaries of Knowledge

TECH offers the student the possibility of expanding its frontiers, being able to carry out this training not only in centers of national importance, but also internationally. In this way, the specialist will be able to keep up to date with the best professionals practicing in top veterinary hospitals in different continents. A unique opportunity offered only world's largest digital university.



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

# 03

## Objectives

The main objective of this Internship Program in Poultry Medicine and Surgery is to offer the veterinarian an in-depth update in this field, as it is a growing specialization at present. For this reason, you will have access to the facilities of the best care center for this species during a stay and learn, together with an attending expert, all the ins and outs of veterinary practice.



### General Objectives

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- ♦ Master the latest techniques and procedures on Poultry Medicine and Surgery, with emphasis on the analysis of the anatomy and physiology of these species
- ♦ Incorporate into daily practice the most effective techniques in relation to nutritional guidelines
- ♦ Delve into the approach to the different existing pathologies in birds, delving into the types of treatment for each clinical case







## Specific Objectives

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- ◆ Identify the differences between birds and mammals
- ◆ Ascertain the most characteristic property in avian patients: capacity for flight
- ◆ Analyze variations between species based on avian anatomy and physiology
- ◆ Specify key anatomical points to select diagnostic techniques
- ◆ Establish the necessary requirements for keeping birds in captivity
- ◆ Examine the key criteria for health, welfare and success in avian
- ◆ Determine nutritional guidelines and specific diets for birds
- ◆ Generate guidelines for all birds, including birds of prey and others less clinically studied species such as pigeons
- ◆ Compile the most commonly used diagnostic techniques: radiology, endoscopy and ultrasound
- ◆ Develop specialized knowledge in all laboratory diagnostic tests
- ◆ Establish the protocols to interrupt biochemical analysis and proteinograms
- ◆ Demonstrate the correct necropsy technique in avian patients
- ◆ Generate protocols for coprology in birds
- ◆ Examine radiology techniques in avian patients
- ◆ Anticipate diagnostic difficulties in ultrasound in avian patients
- ◆ Propose endoscopy as the diagnostic technique of choice
- ◆ Analyze the main infectious pathologies in birds: Viral, bacterial, mycoplasmic, fungal and parasitic

- ◆ Develop specialized knowledge of non-infectious pathologies: genetic, metabolic-endocrine, anatomical alterations, physical-chemical imbalances and nutritional deficiencies
- ◆ Define soft tissue pathologies
- ◆ Specify treatments and prevention strategies
- ◆ Develop specialized knowledge of diseases in birds according to cause, epizootiology and physiopathogenesis
- ◆ Determine the close relationship between humans and wild birds
- ◆ Identify the routes of disease transmission
- ◆ Analyze the most frequent questions that arise in field situations
- ◆ Generate specialized knowledge of anesthetic techniques commonly used in bird clinics
- ◆ Develop the most important aspects about the types of anesthesia and frequently asked questions by veterinarians
- ◆ Analyze management techniques for exploration and anesthetic drug administration
- ◆ Determine the most common emergency situations
- ◆ Analyze the different anatomical and physiological aspects of birds to apply them to anesthetic techniques
- ◆ Examine emergencies in situations of hemorrhage and more advanced surgical problems
- ◆ Establish emergency protocols, as in any animal that is injured or needs surgical assistance
- ◆ Reach the shock state protocol, which is very difficult to determine in avian patients
- ◆ Provide nutritional and fluid therapy requirements for pathology recoveries
- ◆ Analyze the relevant aspects of drug administration







- ◆ Gain in-depth knowledge of the most used antibiotics, taking into account the routes of administration and the possible and real guidelines that can be followed in each real situation
- ◆ Acquire knowledge of new medications for birds
- ◆ Develop specialized knowledge to properly treat fractures and determine prognosis
- ◆ Determine the proper praxis in resolving fractures in avian patients, using bandages and surgical methods of osteosynthesis, by means of external immobilizations, centromedullary interlocking, external fixators or locks
- ◆ Examine the most effective methods for treating each type of bird and potential fractures in terms of physical recovery and total recovery of the limb
- ◆ Analyze the different anatomical and physiological aspects of birds to apply them to the most effective treatments



# 04

## Educational Plan

This Internship Program in Bird Medicine and Surgery consists of an on-site and practical stay in one of the most prestigious wildlife care centers in the world. Therefore, during 3 weeks of continuous learning and from Monday to Friday, the student will develop their skills, attending real cases, together with an assistant specialist with extensive experience in this area.

In this training proposal, of a completely practical nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of veterinary care in areas and conditions that require a high level of qualification, and which are oriented towards specific training for the exercise of the activity, in a safe environment and high professional performance.

This program represents a unique opportunity for the veterinarian, as they will be able to learn by performing various activities to become familiar with the latest developments in testing and treatment of small or exotic birds. This active participation is key to updating their skills for professional activity in the sector.

The 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 fellow trainees to facilitate teamwork and multidisciplinary integration as transversal competences for the practice of Poultry Medicine and Surgery (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:



Module	Practical Activity
<b>Laboratory tests and imaging techniques</b>	Extract, analyze and evaluate hematology
	Evaluate the biochemical analysis of the bird
	Developing urinalysis tests
	Develop fundamental and advanced cytological techniques, with emphasis on the study of cells
	External and internal assessment of the patient in the postmortem examination
	Develop diagnostic procedures in the necropsy technique
	Practice with the patient the necessary restraint and positioning to perform an efficient diagnostic imaging test
	Apply contrast radiographic study
	Develop radiological interpretations
	Practice endoscopy to analyze a hollow organ or body cavity
	Develop clinical analyses related to avian cardiology
	Evaluate pathologies derived from incorrect nutrition
	Develop examinations for disorders of the oral cavity
<b>Approach to pathologies related to the avian patient and their management</b>	Analyze pathologies of the esophagus and cecum
	Analyze pathologies of the proventriculus
	Analyze pathologies of the gizzard or ventricle
	Examine poultry intestinal pathologies
	Assess and determine liver pathologies
	Analyze the different types of endocrine disorders
	Develop tests for fungal diseases
	Develop parasite analysis
	Perform coprological analysis in birds
	Conduct protozoan evaluations
	Perform analysis of hemoparasites

Module	Practical Activity
<b>Anesthesia and analgesia techniques in poultry</b>	Perform remote anesthesia administration
	Evaluate inhalation anesthesia in birds
	Practice monitoring during anesthesia
	Analyze injectable anesthesia
	Application of anesthesia in caged birds: ssitaciformes and passerines
	Applying anesthesia in aquatic and semi-aquatic birds
	Apply anesthetic techniques for the reproductive system
	Apply anesthetic techniques for the gastrointestinal tract
	Perform biopsies
	Perform respiratory surgical techniques
<b>Specific management of different medical treatments</b>	Apply nutritional treatments
	Apply external treatments
	Practicing drug administration in birds
	Practice the administration of the most commonly used antibiotics in the avian patient
	Perform tests of the most commonly used antifungals in the avian patient
	Apply the most commonly used antiparasitics in avian patients
	Analyze and administer medications used for nebulization
	Evaluate the ophthalmological eye drops used in birds
<b>Orthopedic and ophthalmologic surgery techniques in poultry</b>	Analyze eye and eyelid lesions and detect the different types of pathologies
	Perform the examination in pododermatitis
	Assess fracture types, with emphasis on loss of bone definition
	Evaluate fracture correction
	Apply fixation methods for fractures
	Analyze the less frequent bone lesions and apply the corresponding treatments
	Practice postoperative care of patients with repaired fractures

# 05 Where Can I Do the Internship Program?

To ensure that the teaching is of quality and in accordance with current parameters, TECH presents these centers of great international prestige, which are at the forefront of veterinary care in poultry. Thus, the student will have the support of the best specialists in the sector and the most relevant medical instruments at a technological level. In this way, you can comfortably acquire the knowledge you need to specialize in bird care.



*A unique opportunity for you, who wish to continue your professional path. Thanks to this program you will learn from the best in just 3 weeks of continuous learning”*







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



**GREFA - Grupo de Rehabilitación de la Fauna Autóctona y su Hábitat**

Country	City
Spain	Madrid

Address: C. Monte del Pilar, s/n, 28220  
Majadahonda, Madrid

GREFA specialized in the study and conservation of nature.

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**Related internship programs:**

- Wildlife Management
- Avian Medicine and Surgery

# 06

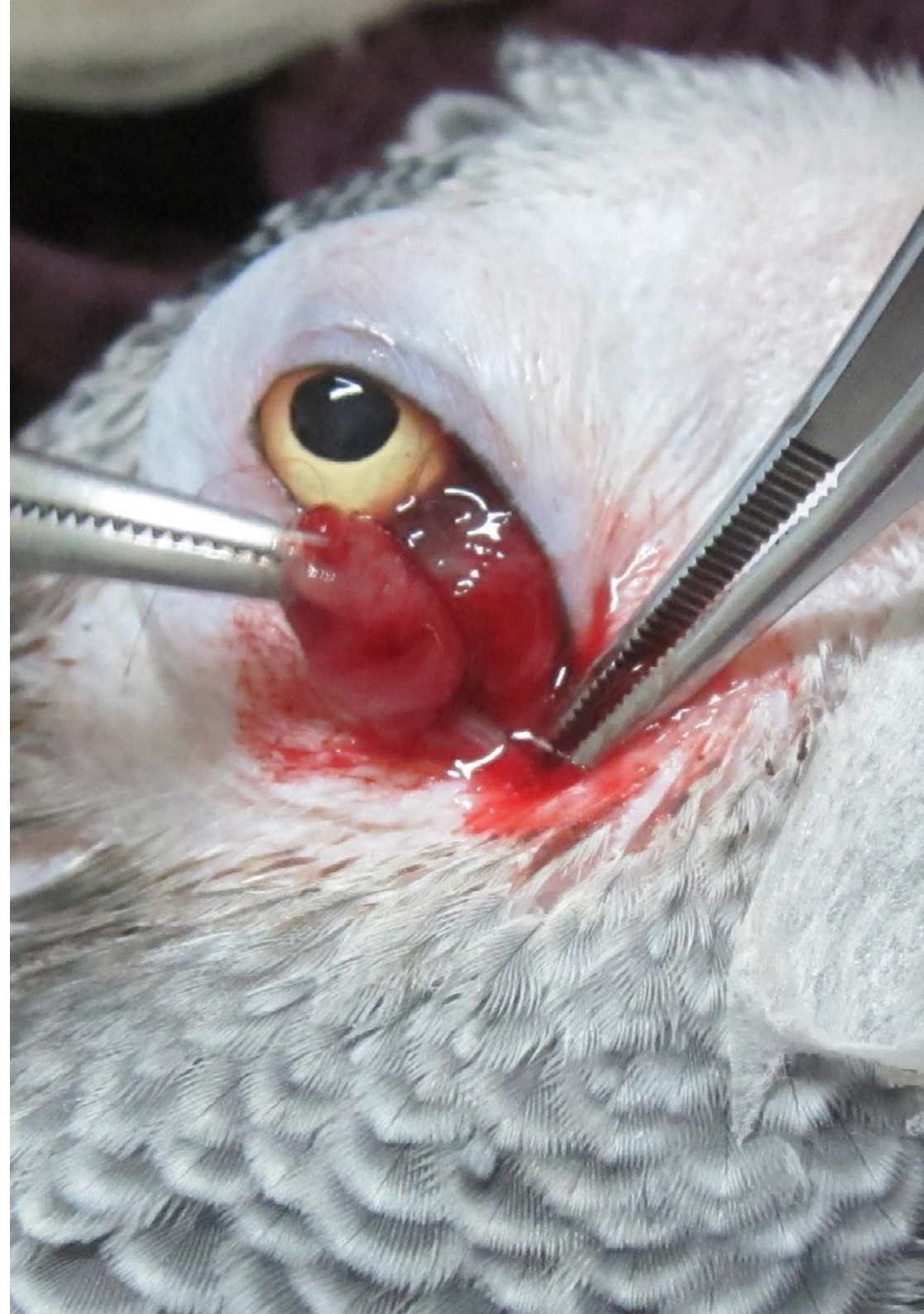
## General Conditions

### 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 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 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 Avian Medicine and Surgery** 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 diploma issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Avian Medicine and Surgery**

Duration: **3 weeks**

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

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



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