

# Internship Program

## Biology and Technology of Reproduction in Mammals



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Internship Program  
Biology and Technology of  
Reproduction in Mammals

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# 01 Introduction

In the field of Reproduction in Mammals, the understanding of genetics, of the factors that influence conception and the improvement of techniques have allowed the optimization of reproductive processes and have influenced the survival of species or the improvement of breeds. In this sense, the evolution of these processes has led professionals to specialize in this area and integrate the most recent advances to their practice. For this reason, TECH has developed this program that leads the graduate to a 3-week internship in a prestigious veterinary center and with the best experts in this field.

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*Incorporate into your daily practice the most relevant advances in the area of Reproduction in Mammals thanks to a distinctive and unique practical experience”*





Scientific progress and clinical application of advances in reproduction in mammals has led to significant advances in the reproduction of endangered species, preimplantation genetic diagnostics, sex selection and genetic manipulation. All this, has allowed in recent years to expand this area within the field of veterinary.

For this reason, TECH has developed this Internship Program that leads the graduate to perform an effective update in this field in a first level clinical environment and surrounded by real specialists with extensive experience in this field.

This is an unique experience that will allow the graduate to get involved, from the very first moment, in activities related to the procedures and techniques used in the evaluation of patients with fertility problems and in the performance of tasks for insemination, IVF or embryo transfer. All this, over 120 hours of practical stay over a clinical environment.

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*Enjoy an intensive 3-week stay in a reputable center and get up to date on the latest clinical procedures to achieve professional growth"*



# 02

## Why Study an Internship Program?

In this program, TECH focuses on the most current practice in the veterinary field. In this way, it responds to the needs of those professionals who wish to obtain an update in the field of Reproduction in Mammals, in a specialized and first level environment. For this reason, this educational institution has developed an internship, whose methodology is based on practical activities, guided by the best experts in this field. During 3 intensive weeks, you will be integrated into a multidisciplinary work team, where you will see firsthand both the latest scientific findings in the area and how to apply them to your own daily clinical practice.



*Get into real clinical environments and delve, with the help of the best specialists, into the latest advances in Reproduction in Mammals"*

### 1. Updating from the Latest Technology Available

Technology sets the course in the field of Reproduction in Mammals. For this reason, the veterinarian who attends this Internship Program will have access to the most advanced equipment for sample analysis and diagnosis, as well as for the performance of the different reproduction techniques, in compliance with safety and quality protocols. In this way, graduates will be able to approach the most notorious advances in a unique veterinary space, which will allow them to increase their skills.

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

The purpose of this Internship Program is to ensure that the graduate obtains a 100% practical academic experience with the best specialists in Animal Reproduction. For this, TECH carefully selects the centers where the practices will be carried out, where the veterinarians will be together with a professional who will guide them in this process. This way, at the end of the 3 weeks, veterinarians will have incorporated into their practice the most effective procedures and approaches in this area.

### 3. Entering First-Class Clinical Environments

The specialist who attends this Internship Program will be involved from the first day in a veterinary center that meets the technical and quality requirements of all animal reproductive procedures. Therefore, graduates will be able to check in situ the most advanced techniques and incorporate them in their professional performance. All this, after 120 hours with experts in this field with a long trajectory.



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

In the current educational landscape there are many pedagogical proposals focused on providing a theoretical framework, but far from the practical reality so necessary in areas such as veterinary. For this reason, in order to respond to the reality of professionals in the field of animal reproduction, it has designed this intensive Internship Program that will allow the graduate to be in charge of the latest generation of procedures in this field.

#### 5. Expanding the Boundaries of Knowledge

Beyond the realization of a practical process, this academic option favors the range of possibilities within the specialized field of Reproduction in Mammals. And the fact is that, taking this program while surrounded by the best experts in this field, provides a unique update and marks the improvement of technical, diagnostic and therapeutic skills in the field of veterinary.



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

# 03 Objectives

Thanks to this program, designed by TECH, the veterinarian will achieve, in a short time, to amplify the skills and abilities necessary to apply the most sophisticated techniques in artificial insemination, embryo transfer and gamete cryopreservation. In this way, graduates will integrate into their daily performance the most relevant advances in this field, as well as in the improvement of mammalian reproductive health.



## General Objectives

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- Become an expert in the latest technology for animal reproduction methods
- To incorporate the most efficient clinical analysis and the most precise reproductive techniques to daily work
- Know the specific approach and common cases that occur in the clinical environment of Reproduction in Mammals







## Specific Objectives

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- ◆ Examine the hormonal changes generated during puberty in the male
- ◆ Apply protocols for diagnosis and treatment of venereal diseases
- ◆ Identify hormonal factors for growth and regulation of oocyte maturation
- ◆ Establish calving induction treatments in different domestic females
- ◆ Develop puerperal control guidelines
- ◆ Examine the critical points in the processing, maintenance and cryopreservation of spermatozoa
- ◆ Develop the methods of embryo sexing currently in use
- ◆ Establish the technique of oocyte collection in impuberant females and its effective application as a shortening of the generation interval
- ◆ Propose the different embryo biopsy techniques for preimplantational genetic diagnosis
- ◆ Implement quality management systems in semen freezing centers



*This program will take you in just 3 weeks to achieve your goals of upgrading your skills in the field of embryo transfer"*

# 04 Educational Plan

The Practical Program of this internship in Biology and Technology of Reproduction in Mammals consists of a practical stay in a prestigious center, for 3 weeks, from Monday to Friday with 8 consecutive hours of work with a first class specialist in this field. Hence, this process will allow the graduate to attend real patients alongside a team of reference professionals, applying the most innovative diagnostic procedures and planning the most advanced therapeutics in the field of animal reproduction.

In this completely practical Internship Program, the activities are aimed at developing and perfecting the skills necessary to provide healthcare in areas and conditions that require highly qualified professionals, and are oriented towards specific expertise for practicing the activity, in a safe environment for the patient and with highly professional performance.

TECH offers through this educational proposal an innovative experience that will allow graduates to perfect their skills in a first class clinical environment. In this way, graduates will have the guarantee of access to a stay that will lead them to assume with guarantees the present and future challenges of this specialty, which in recent decades has undergone a great transformation.

The practical education 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 that facilitate teamwork and multidisciplinary integration as transversal skills for Veterinary praxis (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
<b>Assisted Reproduction Techniques</b>	Collaborate in the performance of the techniques used for artificial insemination or IVF.
	Collect and evaluate reproductive samples, such as semen or ovarian cells
	Apply semen preparation techniques, handling of insemination catheters and correct placement of semen in the female reproductive tract
	Participate in embryo transfers
<b>Selection of Sex in Mammals</b>	Participate in the performance of techniques used for sex selection in mammals, such as the separation of spermatozoa by centrifugation, the use of molecular markers or the use of specific artificial insemination techniques to select the sex of the embryo
	Apply the different protocols, equipment used and ethical considerations associated with sex selection in mammals
	Collaborate on appropriate collection methods
	Process samples and quality criteria necessary for an accurate result in mammalian sex selection
<b>Advice to Livestock Breeders</b>	Visit different livestock farms to inform about the different reproduction processes, according to the health status of the animal
	Evaluate the health status of the animals and carry out a sanitary planning
	Collaborate in estrus synchronization protocols, perform artificial inseminations and monitor the reproductive cycles of animals
	Carrying out analysis of production records of livestock farms
<b>Fertility testing</b>	Collect semen samples, vaginal swabs or blood samples
	Participate in the evaluation of semen by microscopic analysis and identify possible abnormalities and evaluate semen quality
	Assist in the interpretation of hormonal analysis results
	Provide support in the performance of reproductive ultrasound scans in animals to evaluate the evaluate the status of reproductive organs, detect abnormalities and confirm the presence of gestation



# 05 Where Can I Do the Internship Program?

TECH adheres to a philosophy based on the quality of its programs. For this reason, it carries out a meticulous selection process of each and every one of the centers where the practical stay is carried out. In this sense, this institution has focused all its efforts in providing students with first class spaces, which integrate the most advanced equipment in Reproduction in Mammals and the latest scientific evidence in this field.



*Update your knowledge in 120 practical hours and in a veterinary center that is a referent in the field of Mammalian Reproduction"*







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



Veterinary-medicine

### Embriovet

Country	City
Spain	La Coruña

Address: P8-IA Polígono Industrial de Piadela, 15300 Betanzos, A Coruña

Embriovet offers customers the most complete embryo transfer services, genetic counseling and marketing

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#### Related internship programs:

- Biology and Technology of Reproduction in Mammals



Veterinary-medicine

### AGAR Veterinarios equinos

Country	City
Spain	Asturias

Address: Barrio Belmonte, 33590 Boquerizo, Asturias

Equine Veterinary Services in Asturias and Cantabria

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#### Related internship programs:

- Internal Medicine in Large Species
- Equine Medicine and Surgery



Veterinary-medicine

### Centro Veterinario Animal-Vetx El Saladillo

Country	City
Spain	Huelva

Address: Cam. del Saladillo, 3, 21007 Huelva

AnimalVetx El Saladillo Veterinary Center in Huelva is a complete and innovative veterinary center since 2014.

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#### Related internship programs:

- Veterinary Surgery in Small Animals
- Small Animal Ultrasonography

# 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 program agreement shall be as follows: 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 Biology and Technology of Reproduction in Mammals** 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 Biology and Technology of Reproduction in Mammals**

Duration: **3 weeks**

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

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





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