

# Internship Program

## Update on Assisted Reproduction



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Internship Program  
Update on Assisted Reproduction

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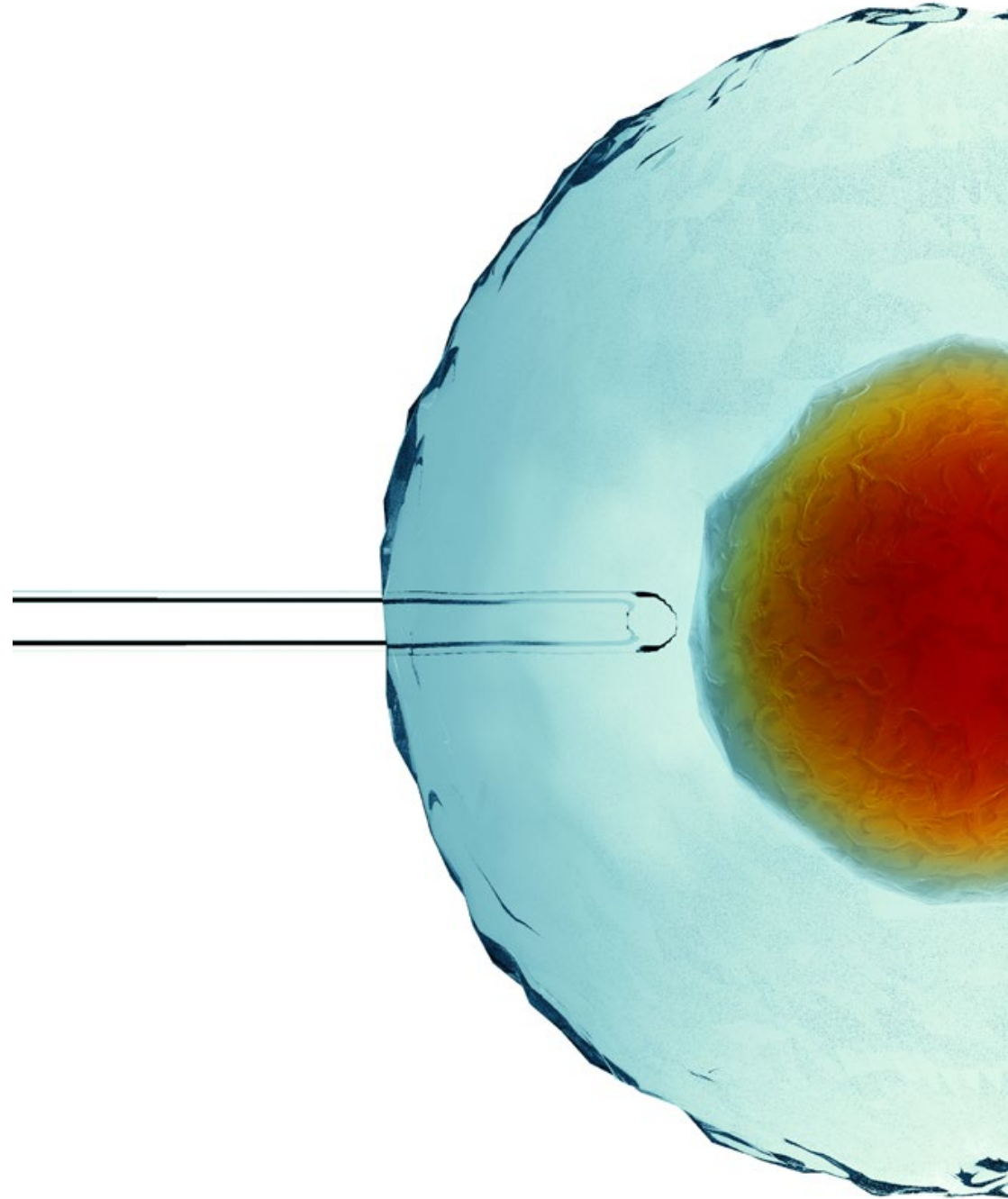
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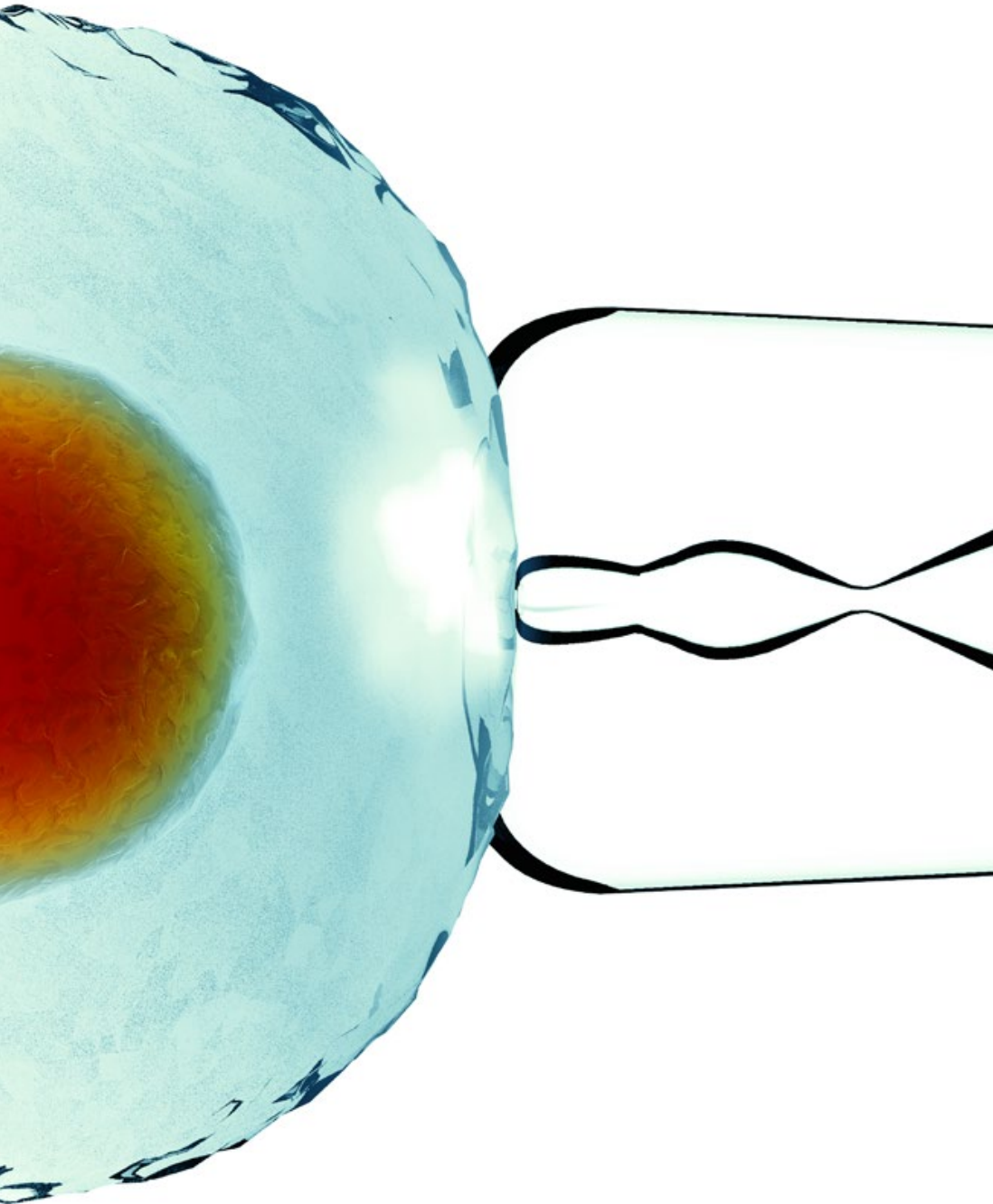
# 01 Introduction

Nowadays, a relevant percentage of new births are due to advances in the area of Assisted Reproduction. It is not in vain that the WHO reports that 1 in 4 couples in developing countries are affected by infertility, so it is a field of great scientific interest. The advances and developments that occur in areas such as in vitro fertilization or gamete management are not understood without their necessary practical application in real clinical environments. For this reason, TECH has created this program, in which in 3 weeks the specialist will be integrated into a team versed in Assisted Reproduction to catch up on the latest developments and technologies available, therefore, being able to bring them to their own daily practice in a comprehensive and efficient way.



*Incorporate into your daily practice the most relevant advances in the area of Assisted Reproduction thanks to a distinctive, unique and effective practical experience"*





The factors that can increase the success or failure rate in embryo implantation in Assisted Reproduction are many and varied, but they must always be taken into consideration when starting this type of treatment. All this added to the application of the most effective and cutting-edge insemination techniques can result in a safe pregnancy for the mother and the future baby, fulfilling the dream of many people to bring life into the world. For this reason, medical practice in this discipline must be carried out in an exhaustive and detailed manner, always taking as a basis the most advanced hormonal and interventional therapies. And as the best way to perfect these skills is through practice, TECH has designed a program consisting of a 120-hour internship in a clinical center of reference in the field of Assisted Reproduction.

Therefore, during 3 weeks, the graduate will become part of a team of specialists of the highest level, with whom they will work actively in the management of the different patients who come to their respective consultations during this period. In this way, they will be able to get up-to-date, not only with the most effective medical strategies, but will also be able to implement the most assertive and close communication skills to give both good and bad news in their practice. Therefore not only will they participate in a program that will raise their clinical talent to the highest level, but will also increase their human and empathic quality.

During the internship they will have the support of an attending tutor, who will ensure that all the requirements for which this Internship Program has been designed are fulfilled. On this basis, the specialist will work with total guarantee and security in the handling of the most innovative clinical technology, as well as in the use of the therapeutic and diagnostic techniques that have had the best results to date. This way, they will be able to improve their skills in the creation of life, giving back the hope to a great number of people who dream of becoming parents.

# 02

## Why Study an Internship Program?

Postgraduate education should go far beyond offering an academic update. In the medical field, the specialist must be provided with new knowledge based on the latest scientific evidence and, to achieve this, it is not enough to offer only theoretical content, it is necessary to provide the tools to put it all into practice. With this idea in mind, TECH has designed a unique and disruptive academic product in the current educational panorama, which will allow the specialist to enter a real clinical environment where they can put into practice the latest procedures and techniques in the field of Assisted Reproduction. During 3 intensive weeks they will be integrated into a multidisciplinary work team, where they will see firsthand both the latest scientific discoveries in the area and how to apply them to their own daily clinical praxis. A unique academic opportunity that not only revolutionizes traditional pedagogical systems, but also puts the specialist at the center of the equation to offer learning with real utility and adapted to their needs.

### 1. Updating from the latest technology available

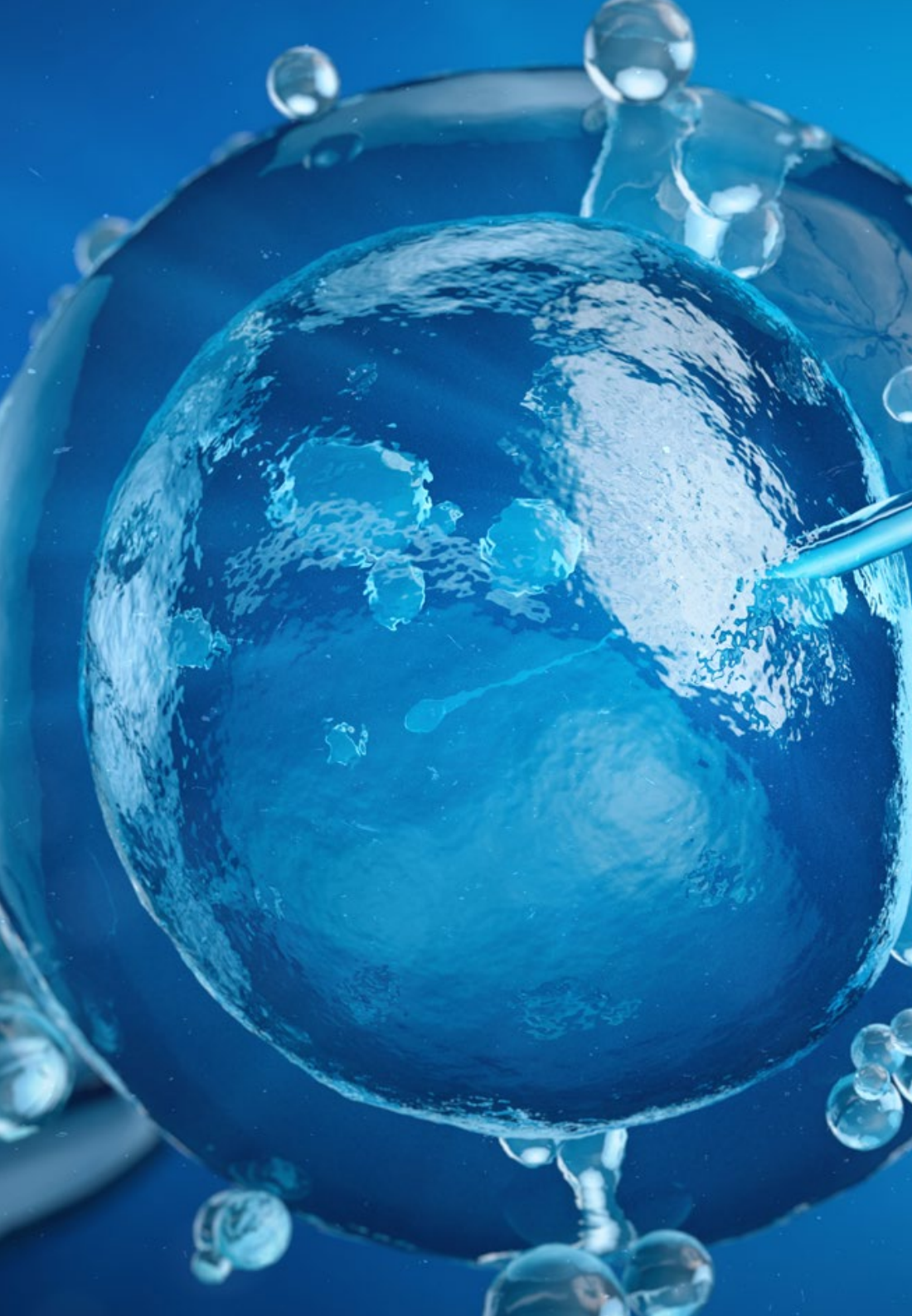
The field of Assisted Reproduction has been revolutionized in recent years thanks to advances such as vitrification, better sperm selection or Artificial Intelligence applied to the screening of thousands of embryos. For this reason, and with the aim of bringing the specialist closer to this technology, TECH presents this Internship Program with which the professional will enter a cutting-edge clinical environment, accessing the latest technology in the field of Assisted Reproduction.

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

The large team of professionals that will accompany the specialist throughout the internship provides a first-class endorsement and a guarantee of unprecedented updating. With a specifically designated tutor, the student will be able to see real patients in a state-of-the-art environment, which will allow them to incorporate the most effective procedures and approaches in Assisted Reproduction into their daily practice.

### 3. Entering First-Class Clinical Environments

TECH carefully selects all available centers for Internship Programs. Thanks to this, the specialist will have guaranteed access to a prestigious clinical environment in the area of Assisted Reproduction. In this way, you will be able to see the day-to-day work of a demanding, rigorous and exhaustive sector, always applying the latest theses and scientific postulates in its work methodology.



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

The academic market is plagued by teaching programs that are poorly adapted to the daily work of the specialist and that require long teaching hours, often not very compatible with personal and professional life. TECH offers a new learning model, 100% practical, that allows them to get in front of state-of-the-art procedures in the field of Assisted Reproduction and, best of all, to put it into professional practice in just 3 weeks.

#### **5. Expanding the Boundaries of Knowledge**

TECH offers the possibility of doing this Internship Program, not only in national, but also in international centers. This way, the specialist will be able to expand their frontiers and catch up with the best professionals, who practice in first class centers and in different continents. A unique opportunity that only TECH, the largest online university in the world, could offer.

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

# 03 Objectives

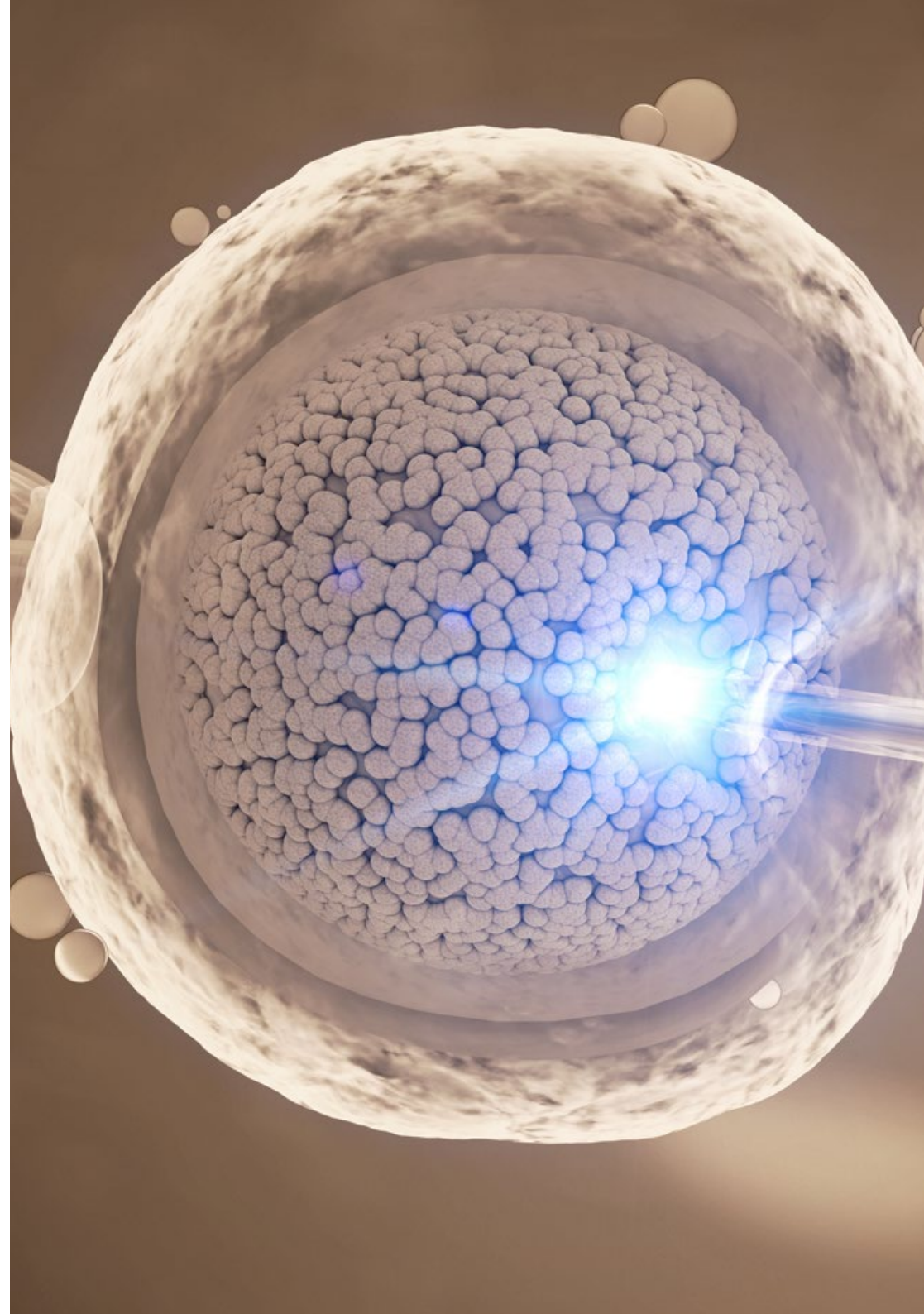
This Internship Program in Update on Assisted Reproduction has been developed with the aim of allowing specialists to update their concepts in anatomy, physiology, embryology and genetics, which will help them to carry out a state-of-the-art diagnostic and therapeutic practice. Thanks to this, you will be able to know in detail the latest developments related to the initial assessment of the infertile couple, as well as to get up-to-date with the study criteria for referral to the Reproduction units. In addition, it will allow them to improve their skills in basic clinical examination, as well as in the request and interpretation of the results of the complementary tests that are prescribed in this type of cases.



## General Objectives

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- ♦ Master the latest techniques, modern scientific postulates and application of cutting-edge technologies in infertility treatments
- ♦ Incorporate the most effective methods, approaches and clinical analysis into daily work, endorsed by a team of prestigious experts in the area of Assisted Reproduction
- ♦ Know the specific approach and common cases that occur in the clinical environment of Assisted Reproduction







## Specific Objectives

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- Study the developments and advances throughout the history of Reproductive Medicine
- Differentiate the different reproductive techniques: ovulation stimulation, artificial insemination and In Vitro Fertilization with or without sperm microinjection
- Detail the indication of the different reproductive techniques
- Delve into the anatomy and embryology related to embryonic genesis and embryo implantation
- Study the possible relationship with tubal factor sterility and infertility
- Deepen in the histological, immunological and microbiological endometrial changes and in the current techniques for their evaluation
- Deepening the basic study at the male level
- Interpret normal values of a semen analysis
- Manage the different drugs used in ovulation stimulation
- Know the different stimulation protocols according to the patient's characteristics
- Understand the need to establish general and specific quality indicators for each laboratory in order to maintain the best conditions in the laboratory
- Study the impact of fibroids on fertility
- Study the indications of the "freeze all"
- Know and manage the possible complications derived from assisted reproduction treatments
- Study the European standards to establish the minimum criteria required in Reproduction Units (ISO/UNE)
- Study the basic concepts of genetics
- Develop the basic concepts of reproductive genetics
- Know the Spanish legislation on Assisted Reproduction Techniques and its evolution throughout history
- Know the legislation in other surrounding countries



*You will work hard to achieve even your most ambitious goals by making use of the most cutting-edge and accurate clinical technology in today's medical environment"*

# 04 Educational Plan

The internship period of this program in Update on Assisted Reproduction will take place in a prestigious center within the sector, known not only for its trajectory, but also for the effectiveness of its treatments. Therefore, the graduate will have access to 3 weeks of stay, distributed from Monday to Friday in 8-hour shifts and in which they will be supervised at all times by an attending specialist. In this way, they will not only be able to mimic the working environment, but will also get to know in detail the place where their profession is developed in the current medical context.

This will allow them to treat patients with various pathologies related to the reproductive field: fertility, inseminations, transplants, pathologies related to the sexual organs, etc. The experience is designed for students to actively participate in the diagnosis and clinical management of all cases, being advised by a team of experts in the sector thanks to whom they will be able to get up-to-date with the most effective and innovative therapeutic guidelines that are being used in the current medical environment.

In addition, they will have access to the most innovative, complex and technical clinical technology, based on the latest scientific advances in the sector. Therefore, during the 3 weeks of internship they will have the opportunity to improve their management skills, expanding their abilities and elevating their professional talents to the top. It is, therefore, a unique academic opportunity to get up-to-date through the leading practice in a prestigious clinic on the international scene.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of knowledge (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 competencies for the practice of Medicine (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
<b>Assisted Reproduction Techniques</b>	Perform surgical hysteroscopy in those pathological cases of greater difficulty
	Assess the clinical situation of patients undergoing treatment with corticosteroids, androgens or heparin to address certain pathologies
	Apply ovulation-stimulating drugs to improve the number of eggs obtained in each cycle
	Increase the number of sperm obtained in azoospermic patients using the TESE or micro-TESE technique
	Use the current techniques of oocyte vitrification and embryo cryotransfer that have allowed the expansion of fertility preservation programs
<b>Technology Applied to Assisted Reproduction</b>	Test the use of Artificial Intelligence in Assisted Reproduction units
	Examine the application of Regenerative Medicine to overcome situations of early ovarian failure and refractory endometrium
	Manage the technology applied to the automation of analytical processes and intervention techniques
	Make use of modern electronic traceability systems
	Improve genetic matching with the support of state-of-the-art software and databases
<b>Fertility, Gamete and Embryo Preservation</b>	Assess the practical application of advances in reproductive epigenetics, as well as studies in female and male infertility
	Make use of advanced technological equipment for cryopreservation of both semen and ovarian cortex
	Participate in conservative surgery and ovarian transposition in cases of gynecologic oncology
	Address the organization and clinical management of a biobank, as well as the safety factors to be taken into account
	Review the influence of ethical and legal aspects in gamete and embryo preservation

Module	Practical Activity
<b>Prevention of Reproductive Dysfunction and Fertility Problems</b>	Approach, from the perspective of the Assisted Reproduction Unit, pathologies such as endometriosis, anovulations or tubal obstructions
	Delve into the use of sperm microinjection to solve pathologies such as oligozoospermia, asthenozoospermia and teratozoospermia
	Design treatments for patients who are overweight or addicted to tobacco and alcohol
	Determine Artificial Insemination or In Vitro Fertilization strategies according to the patient's needs
	Personalize fertility treatments according to the most advanced diagnostic tests and therapeutics
<b>Male and Female Fertility Tests</b>	Assess the novelties and biomarkers in Gynecologic Vaginal Ultrasonography
	Draw a basal hormone profile based on the latest in Hormonal Analyses
	Assess semen quality based on the most rigorous Seminogram
	Discriminate the most valuable spermatozoa by REM sperm capacitation test
	Update on practical procedures in both male and female serology tests



*You will learn first-hand about the working reality of the area, in a demanding and rewarding environment"*

# 05 Where Can I Do the Internship Program?

In its commitment to offer the most beneficial clinical internship for the specialist's update, TECH has selected the best centers for this Internship Program, in which you will become part of a team of professionals of the highest level. In addition, it has ensured that they make use of the most innovative and accurate medical technology, as well as the clinical techniques that are having the best results at present. Thanks to this, you will have the opportunity to update your knowledge while implementing the best and most avant-garde strategies for Assisted Reproduction in their practice.



*A unique opportunity to learn in detail the latest developments in Assisted Reproduction through a practical program that will guarantee the clinical management of dozens of patients”*





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



Medicine

### Vida Fertility Institute

Country	City
Spain	Madrid

Address: Calle Palermo, 15, 28043, Madrid

Fertility clinic and therapeutic strategy

**Related internship programs:**

- Assisted Reproductive Nursing
- Update on Assisted Reproduction



Medicine

### Vida Fertility Institute

Country	City
Spain	Alicante

Address: Calle Velázquez, 2, 03560, Campello, Alicante

Center specialized in fertility solutions and diagnostic and therapeutic treatments

**Related internship programs:**

- Assisted Reproductive Nursing
- Update on Assisted Reproduction



Medicine

### Instituto Murciano de Fertilidad (IMFER)

Country	City
Spain	Murcia

Address: Avenida de los Pinos, 5, 30009, Murcia

Specialized fertility center offering Assisted Reproduction techniques and procedures

**Related internship programs:**

- Update on Assisted Reproduction



Medicine

### Clínica Tambre

Country	City
Spain	Madrid

Address: Calle Tambre 8, 28002, Madrid

Clinical center for reproductive assistance, Gynecology and Obstetrics

**Related internship programs:**

- Assisted Reproductive Nursing



Medicine

### Hospital Maternidad HM Belén

Country	City
Spain	La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update on Assisted Reproduction
- Hospitals and Health Services Management



Medicine

### Hospital HM Montepríncipe

Country	City
Spain	Madrid

Address: Av. de Montepríncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Palliative Care
- Aesthetic Medicine



Medicine

### Hospital HM Puerta del Sur

Country	City
Spain	Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Palliative Care
- Clinical Ophthalmology



Medicine

### Hospital HM Vallés

Country	City
Spain	Madrid

Address: Calle Santiago, 14, 28801, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Gynecologic Oncology
- Clinical Ophthalmology





Medicine

### HM Fertility Center - Centro Especializado de Reproducción Asistida

Country	City
Spain	Madrid

Address: Calle Velázquez 25, 1ª planta , 28001, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Assisted Reproductive Nursing
- Update on Assisted Reproduction



Medicine

### Policlínico HM Sanchinarro

Country	City
Spain	Madrid

Address: Av. de Manoteras, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Gynecological Care for Midwives
- Nursing in the Digestive Tract Department



Medicine

### Next Fertility

Country	City
Spain	Valence

Address: Avenida Burjassot, 1, 46009, Valencia

Assisted Reproduction Clinic

**Related internship programs:**

- Assisted Reproductive Nursing



Medicine

### Next Fertility Sevilla

Country	City
Spain	Seville

Address: Av. del Reino Unido, 1, 41012 Sevilla

Assisted Reproduction Clinic

**Related internship programs:**

- Nursing in the Assisted Reproduction Service on Assisted Reproduction
- Update



Medicine

### Amnios in Vitro Project

Country	City
Spain	Madrid

Address: Calle Boix y Morer, 5, 28003, Madrid

Amnios in Vitro Project, clinic specializing in Assisted Reproduction

**Related internship programs:**

- Assisted Reproductive Nursing
- Update on Assisted Reproduction



Medicine

### Next Fertility Murcia

Country	City
Spain	Murcia

Address: Av. Europa, 11, 30007 Murcia

Next Fertility is an Assisted Reproduction Clinic

**Related internship programs:**

- Assisted Reproductive Nursing
- Update on Assisted Reproduction

# 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 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 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. NOT INCLUDED:** The Internship Program shall not include any element not described in these 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 Update on Assisted Reproduction** 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 Update on Assisted Reproduction**

Duration: **3 weeks**

Attendance: **Monday to Friday, shifts of 8 consecutive hours**

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





Internship Program  
Update on Assisted Reproduction

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