

Internship Program Telemedicine





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university

Internship Program
Telemedicine

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01 Introduction

Telemedicine and its working tools are constantly being renewed, along with technological innovations related to the Internet and telecommunications. However, healthcare professionals are not always up to date with these advances and do not know how to implement these resources in their daily work. Faced with this problematic scenario, TECH has designed a program, the first of its kind in the educational market, which will facilitate the education of specialists in a 100% practical way. This program includes a 3-week intensive and immersive face-to-face stay in a prestigious hospital facility. The doctor will have access to the most modern equipment in the discipline in question and to the experience accumulated by a team of leading experts.



This program will allow you to be up to date with the latest advances in Telemedicine through an intensive internship in a prestigious clinical center"



For several years now, new information and communication technologies (ICT) have been renewed in the search for better procedures and devices that facilitate the quality of life of users. At the same time, these innovations have made their way into the medical sciences, providing much more efficient and remote methods of monitoring and diagnosis. In this way, Telemedicine today uses resources such as Artificial Intelligence, Big Data or the Internet of Things (IoT) to analyze the medical history of patients, monitor health conditions and make more appropriate therapeutic decisions. At the same time, healthcare branches such as Telesurgery are on the rise, which, using powerful robotic equipment, enable a surgeon to operate on a patient thousands of kilometers away.

Despite all these advantages, most physicians are not up to date with all the potential of Telemedicine and, therefore, do not know how to incorporate it into their daily practice. Aiming to transform this unfavorable scenario, TECH has devised a 100% practical and face-to-face program, in which specialists will receive a complete update on this branch of assistance. This program consists of a 3-week intensive on-site stay in a renowned hospital center. During this time, you will handle the most modern technologies and use them in the development of diagnostic and therapeutic protocols.

In addition, during this Internship Program, each graduate will receive personalized guidance from an assistant tutor. This academic figure has been appointed to accompany them in the process of assimilating new skills and to make learning more complex by incorporating broad-spectrum tasks. Throughout this intensive and immersive stay, the physician will also have the opportunity to discuss interventions and therapeutic management strategies for real cases, together with leading experts in Telemedicine. Upon completion of the 120 hours of this program, the specialist will be ready to tackle high caliber professional challenges and practice the main advances in Telemedicine with ease.

02

Why Study an Internship Program?

Telemedicine has grown exponentially in recent years thanks to recent advances related to ICT. Although health professionals have multiple state-of-the-art devices within their reach, they are not up to date on how to use them in their daily professional practice and for the benefit of their patients. For this reason, TECH proposes to the physician this Internship Program of rigor and exigency where the specialist will analyze the novelties of this discipline through a face-to-face and intensive stay of 3 weeks of duration. During this learning period, they will work alongside great experts and will handle the most advanced diagnostic and therapeutic tools for remote professional practice.



TECH will update your skills in the use of digital programs to manage consultations and video calls to your patients"

1. Updating from the latest technology available

Telesurgery is one of the branches of Telemedicine that has grown the most in recent years, thanks to its support in technological innovations related to connectivity and remote management of large equipment. At the same time, platforms have emerged for the guidance, by means of teleconferencing, of great experts to less experienced surgeons. All these innovations will be addressed in a practical way in this intensive TECH Internship Program.

2. Gaining in-depth knowledge from the experience of top specialists

During this Internship Program, the specialist will have access to a large team of experts who will help them update their knowledge of Telemedicine through an immersive pedagogical experience and the care of real patients. In turn, an assistant tutor, appointed by TECH, will be in charge of monitoring their progress in a more personalized way.

3. Entering first-class clinical environments

TECH has carefully selected each of the hospitals that will participate in this academic modality. The selected institutions have state-of-the-art technologies and are staffed by internationally renowned experts. This combination of resources and qualified personnel makes this program a unique and exceptional opportunity for the acquisition of practical skills by the physician.



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

Through this Internship Program, the specialist will have direct access to real cases and will be able to apply the most advanced ICT for the diagnosis, treatment and remote monitoring of different pathologies. All this, in a 100% practical and face-to-face stay, where the graduate will reach the most updated knowledge on how to implement these working tools and healthcare resources.

5. Expanding the boundaries of knowledge

This study modality puts the physician in contact with highly demanding hospital scenarios. These cutting-edge centers will be located in different geographical latitudes, based on an exhaustive management by TECH, in order to guarantee the specialist's access to care facilities that follow international criteria.



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

03 Objectives

With this Internship Program, the physician will receive an intensive and exhaustive update on how to manipulate the ICT that facilitate the proper development of the Telemedicine practice. From the mastery of different technological devices and software, the specialist will be ready to implement them in his professional practice and undertake e-Health projects.



General Objectives

- ♦ Deepen understanding of the environment in which telemedicine services are developed, including challenges, limitations and opportunities in the area
- ♦ Delve into the ethical, legal, technical and medical aspects of creating and implementing telemedicine projects
- ♦ Get up to date in the different areas of use of ICTs in health care
- ♦ Master the new techniques and technologies that are emerging to better serve patients and their needs





Specific Objectives

- ♦ Further the analysis, development, implementation and evaluation of health and telemedicine projects
- ♦ Identify the political, social, legal, technological and economic fundamentals and dimensions for the implementation of ICT in health systems
- ♦ In-depth study of the ethical and legal aspects of attending a patient by telematic means
- ♦ Delve into the importance of digital interoperability in healthcare and the application of standards for its implementation
- ♦ Recognize the importance of empowering patients and healthcare stakeholders in the world of digital health
- ♦ Master learning and differentiate between reliable and unreliable sources of information
- ♦ Obtain skills for the clinical application of technologies
- ♦ Analyze the process by which a technological project is designed for the healthcare sector
- ♦ Master an e-Health project in the digital world
- ♦ Define a communication and sales strategy
- ♦ Acquire skills for the integration and incorporation of technologies in health and clinical processes
- ♦ Identify the necessary tools for the management of change. The disruption of the technological era in healthcare
- ♦ Provide resources for the promotion of healthy lifestyles using new technologies
- ♦ Understand the usefulness of data analysis for decision making (MEB)
- ♦ Correctly use the system environment of advanced information data to information with its projection and then on to knowledge and wisdom
- ♦ Develop health promotion material through communication channels
- ♦ Explore the power of the patient in the prevention and timely diagnosis of diseases through ICTs



This Internship Program is all you need to get up to speed on remote tools for the efficient diagnosis of alterations in the clinical variables of cardiac patients"

04 Educational Plan

This academic modality allocates 120 hours to learning the most recent innovations in the field of Telemedicine. For the development of this Internship Program, the physician will attend a recognized hospital institution from Monday to Friday, until completing 3 weeks. This intensive, face-to-face stay will allow them to handle the latest technological devices and computer programs for this branch of health care.

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.

Likewise, the specialist will be accompanied by a staff of distinguished experts who will help them broaden their knowledge based on the experiences acquired during their professional career. Likewise, an assistant tutor will closely supervise all progress, offering the graduate the most personalized guidance tailored to their needs for improvement.

Practical teaching will be carried out with the accompaniment and guidance of teachers and other learning colleagues who facilitate teamwork and multidisciplinary integration as transversal competencies for medical practice (learning to be and learning to relate).



The procedures described below will be the basis of the program, and their realization will be subject to the center's own availability, to its usual activity and and its workload, the proposed activities being the following:

Module	Practical Activity
State-of-the-Art Tools and Devices in Telemedicine	Diagnose ear pain, caused by earwax plugs, from remote devices such as CellScope Oto HOME that captures video of the state of the ear canal
	Monitor and detect increases in intraocular pressure, a risk factor for Glaucoma and vision loss, through sensors implanted in the eyeball and communicating with an app
	Distribute medical supplies effectively and efficiently to remote locations using unmanned aerial vehicles or drones
	Apply skin patches to provide constant monitoring of your vital signs and other body data that can be accessed remotely by the physician and the patient
	Take pictures of moles and other suspicious skin lesions, using applications such as Mole Mapper to measure their growth and determine if they might be cancerous
	Use mobile video-calling applications to interact directly with the patient and learn about their self-assessment of their health status remotely
Big Data, IoT and Artificial Intelligence as New Supports for Telemedicine	Manage and organize patient records, according to different parameters, through Big Data tools for cloud queries such as DriCloud
	Use Artificial Intelligence algorithms can also help in the diagnosis of pathologies such as melanomas, based on the observation of data collected
	Track a patient's vital signs throughout the day and transmit data to the cloud through devices connected via the Internet of Things (IoT)
	Provide personalized reminders for medications and recommend routine check-ups for health conditions through Artificial Intelligence
Module	Practical Activity
New Benefits of Telemedicine for Medical Consultations	Remote review of mild ophthalmological symptoms such as allergic reactions, redness or irritation of the eye
	Evaluate fertility cycles, contraceptive methods or pregnancy from gynecology offices
	Evaluate visible symptoms associated with skin pathologies through video calls and photographs for the consideration of the Dermatology Units
	Remote monitoring, by the Cardiology Department, of chronic patients without too many complications (diseases such as arterial hypertension, low blood pressure or hypercholesterolemia)
	Participate in clinical trials of different types through remote access to national and international databases on pharmacological products and other therapeutic resources
Telesurgery and Other Trends in Remote Medical Intervention	Implement cutting, suturing and removal of body parts through surgical robots manipulated by surgeons thousands of miles away
	Use platforms such as Optimus Operating Room to allow a medical team to connect in real time with the operations and remotely participate in or guide the intervention
	Using platforms such as Optimus Operating Room to allow a medical team to connect in real time with the operations and remotely participate in or guide the intervention



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”

05

Where Can I Do the Internship Program?

This Internship Program will take place in a prestigious healthcare institution. These centers chosen by TECH have state-of-the-art technological and computer resources for the practice of Telemedicine. Therefore, the specialist will update their knowledge on how to manipulate and apply them for the benefit of their patients. In addition, you will have the opportunity to access entities that are based on the most rigorous and demanding international standards.



You will apply in real patients and in a direct way the most innovative tools in Telemedicine"





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

Medicine

Centro Médico San Bernardo

Country	City
Spain	Madrid

Address: Calle de Jerónimo de la Quintana,
8, Chamberí, 28010 Madrid

Since its inception, Centro Medico San Bernardo has been dedicated to providing excellent medical services

Related internship programs:

- Legal and Forensic Medicine
- Telemedicine

06 General Conditions

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the students 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 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 private qualification will allow you to obtain an **Internship Program diploma in Telemedicine** 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** private qualification, 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 Telemedicine**

Duration: **3 weeks**

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

Credits **4 ECTS**



future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present quality

online training

development languages

virtual classroom

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