

# Internship Program

## Naval and Ocean Engineering





**tech** global  
university

**Internship Program**  
Naval and Ocean Engineering

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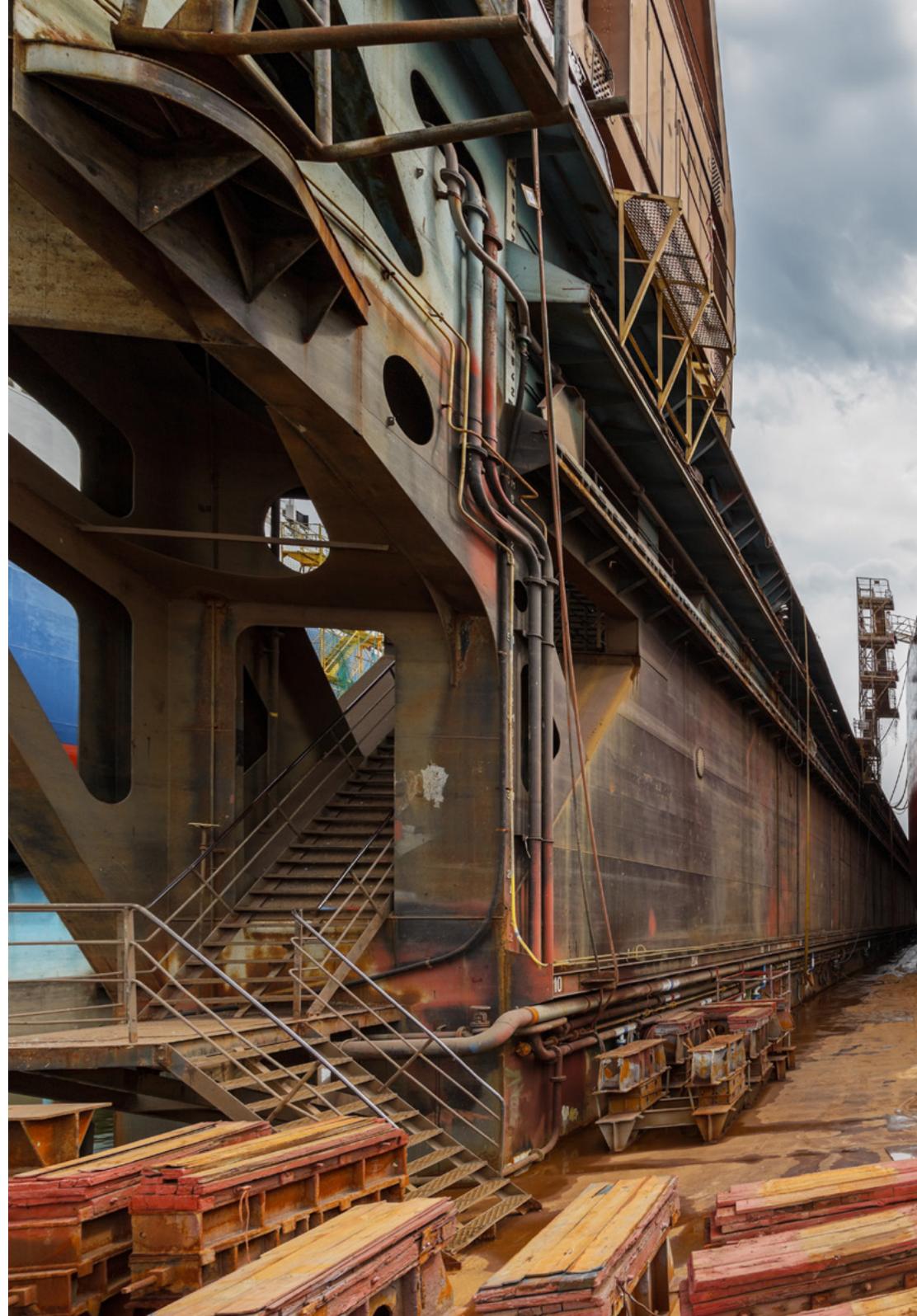
# 01

## Introduction to the Program

Naval and Ocean Engineering is responsible for designing, developing and maintaining infrastructure and vessels operating in marine environments. However, as the industry faces new challenges, from climate change to overexploitation of marine resources, this discipline is being pushed to evolve towards more sustainable and efficient solutions. It is therefore essential for experts to stay ahead of emerging trends in this field in order to optimize their projects. With this idea in mind, TECH presents a university program where graduates will join a team versed in Naval and Ocean Engineering for 3 weeks.

“

*Thanks to this Internship Program, you will design highly innovative ship and ocean platform constructions”*





Naval and Ocean Engineering has advanced significantly in the last few decades, contributing to the fact that maritime transport represents 90% of the world's merchandise trade, according to data from the International Maritime Organization. The growing demand for the transport of goods and the exploitation of marine resources have driven the development of more efficient and sustainable technologies. Faced with this reality, professionals need to develop advanced skills to manage technological tools that optimize the operational processes of vessels and reduce the ecological impact.

In this context, TECH has designed a program that consists of a 120-hour stay in a reference center in the field of Naval and Ocean Engineering. In this way, during 3 weeks, the graduate will become part of a team of specialists of the highest level, with whom they will work actively on projects of design, construction and optimization of vessels and ocean platforms. This practical experience will allow students to hone their skills and prepare them to take on key roles in this sector.

During the stay they will be supported by an assistant tutor, who will ensure that all the requirements for which this Practical Internship has been designed are met. On this basis, the specialist will work with total guarantee and security in the handling of the most innovative technology.

# 02 Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.

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*TECH combines Relearning and the Case Method in all its university programs to guarantee excellent theoretical and practical learning by studying when you want and from wherever you want”*



“

*Study at the largest online university in the world and ensure your professional success. The future begins at TECH”*

**The world's best online university according to FORBES**

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the world's best online university" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method aimed at educating the professionals of the future"

**Forbes**  
Mejor universidad  
online del mundo

**A world-class teaching staff**

TECH's teaching staff is made up of more than 6,000 professors with the highest international recognition. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

Profesorado  
**TOP**  
Internacional

**The world's largest online university**

TECH is the world's largest online university. We are the largest educational institution, with the best and widest online educational catalog, one hundred percent online and covering the vast majority of areas of knowledge. We offer a large selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university degrees, in eleven different languages, make us the largest educational largest in the world.

**nº1**  
Mundial  
Mayor universidad  
online del mundo

**The most complete study plans on the university scene**

TECH offers the most complete study plans on the university scene, with syllabuses that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously being updated to guarantee students the academic vanguard and the most in-demand professional skills. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

**Plan**  
de estudios  
más completo

**A unique learning method**

TECH is the first university to use *Relearning* in all its programs. It is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this disruptive educational model is complemented with the "Case Method", thereby setting up a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

La metodología  
más eficaz

**The official online university of the NBA**

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

**Leaders in employability**

TECH has managed to become the leading university in employability. 99% of its students obtain jobs in the academic field they have studied, within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



**Google Premier Partner**

The American technology giant has awarded to TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition as a Google Premier Partner not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

**The top-rated university by its students**

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model. These ratings place TECH as the absolute international university reference.

# 03

## Teaching Objectives

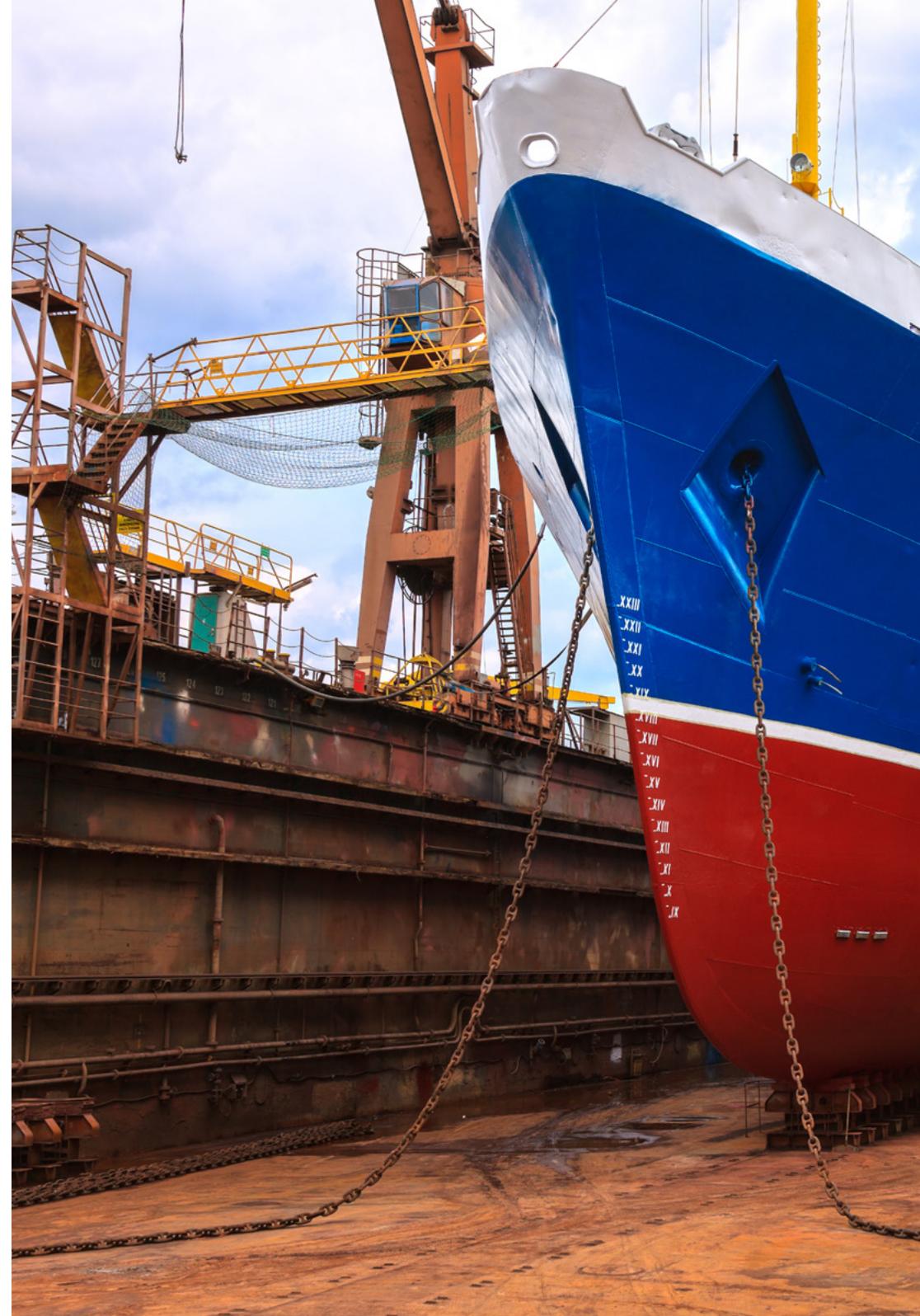
The main objective of the Internship Program in Naval and Ocean Engineering is to develop advanced skills in the design, construction and operation of ships and ocean platforms. In this way, students will be able to apply innovative technologies, perform preventive and corrective maintenance, and manage maritime projects, always with an approach based on safety, sustainability and compliance with international regulations.



### General Objectives

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- ♦ Train in the use of advanced technologies for the design and construction of vessels and marine structures, ensuring that projects comply with international standards
- ♦ Develop skills to analyze and optimize propulsion systems, as well as hydraulic systems used in the marine sector, improving energy efficiency and sustainability of operations
- ♦ Implement safety practices in the design and operation of structures and vessels, minimizing risks and ensuring compliance with international regulations
- ♦ Create technological solutions that contribute to the sustainability and protection of the marine environment, managing waste and reducing the ecological footprint of naval operations





## Specific Objectives

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- ◆ Perform analysis and evaluation of ship and offshore structures using advanced software and techniques to ensure their strength and stability under extreme conditions
- ◆ Delve into the design and simulation of propulsion systems for vessels, improving efficiency and reducing the environmental impact of engines and drive systems
- ◆ Develop skills to apply hydrodynamic principles in the design of boat hulls, optimizing navigation and reducing drag in open waters
- ◆ Train in the evaluation of the environmental impact of activities related to naval and ocean engineering, implementing sustainable practices in the construction and operation of vessels and platforms

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*You will have a comprehensive knowledge of international maritime safety rules and regulations”*

# 04 Internship

The Internship Program of this Naval and Ocean Engineering program consists of a 3-week practical training period in a reputable company, from Monday to Friday, with 8 consecutive hours of practical training with an assistant specialist.

In this training proposal, of a completely practical nature, the activities are aimed at developing and perfecting the skills necessary for the provision of Naval and Ocean Engineering services, and in conditions that require a high level of qualification.

It is undoubtedly a unique opportunity to learn by working in a cutting-edge maritime environment, where advanced technology and innovation in the design, operation and maintenance of naval vessels are at the core of professional practices. This new way of integrating maritime processes makes the main shipyards and ocean platforms the ideal setting for this training experience, perfecting technical and operational skills in 21<sup>st</sup> century Naval and Ocean Engineering.

The practical part 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 professors and other training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the praxis of Naval and Ocean Engineering (learning to be and learning to relate).

The procedures described below will be the basis of the practical part of the training, and its realization will be subject to the center's own availability and workload, being the proposed activities the following:





| Module   | Practical Activity  |
|--|---|
| <b>Strategic Planning</b>                      | Create and define initial concepts for vessels, floating platforms and marine structures  |
|  | Conduct preliminary studies to determine the technical feasibility of a project, ensuring that the conceptual design is feasible within available technical and material constraints  |
|  | Develop models of systems, such as propulsion systems, electrical and hydraulic systems, and loading systems, to illustrate how they will function in the design phase and their integration into the overall project structure |
|  | Identify key technical, operational, and financial risks in the conceptual phase, recommending mitigation strategies to address potential challenges throughout the project life cycle  |
| <b>Structural Design</b>                       | Perform structural design of residential, commercial and industrial buildings, ensuring that structures are safe, functional and comply with local building regulations   |
|  | Evaluate the loads that a structure will be subjected to, such as self-weight, live loads (people, furniture, etc.), dead loads (wind, snow), and seismic loads, to determine if the structure can safely withstand them        |
|  | Calculate and design foundations for structures, considering factors such as soil type, loading of the structure and environmental conditions, to ensure stability and safety   |
|  | Evaluate the safety of structures already built, performing inspections, material fatigue analysis and structural integrity studies to determine the need for repairs, reinforcement or rehabilitation                          |
| <b>Industrial Facilities Engineering</b>       | Develop drawings and calculations for industrial, commercial or residential electrical installations, ensuring proper distribution of electricity and compliance with safety regulations  |
|  | Create preventive maintenance programs for industrial machinery, as well as intervene in the repair of failed equipment   |
|  | Evaluate power distribution in factories and buildings, in order to reduce losses and improve overall performance   |
|  | Coordinate the integration of robots, automation systems and software-controlled machinery to improve productivity and accuracy in the workplace  |
| <b>Vessel and Offshore Platform Management</b> | Monitor weather and ocean conditions in real time using advanced monitoring technologies to anticipate any changes that may affect the safe operation of naval vessels  |
|  | Develop contingency plans and emergency protocols to deal with potential accidents or disasters during operations   |
|  | Evaluate and continuously improve the performance of naval vessels by analyzing operational data, such as speed, fuel efficiency, maintenance, and overall performance  |
|  | Implement real-time performance monitoring technologies to detect areas of improvement and optimize operations  |

# 05 Internship Centers

In its maxim of offering quality education within the reach of most people, TECH has decided to broaden the academic horizons so that this training can be provided in various centers geographically. A unique opportunity that allows the professional to continue to grow their career alongside the best specialists in the field of Naval and Ocean Engineering.

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*You will carry out a practical stay in a reference institution in the field of Naval and Ocean Engineering”*





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



Engineering

### Asmar22

Country  
Spain

City  
Cadiz

Address: C/Cedro Modulo 3 puerta 4 ,  
Taraguillas, CP 11368, San Roque (Cádiz)

Manufacture of boats and composite parts, specializing in  
machining of models

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**Related internship programs:**

- Naval and Ocean Engineering

# 06

## General Conditions

### Civil Liability Insurance

The university's main concern is to guarantee the safety of the interns, other collaborating professionals involved in the internship process at the center. 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, the university commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the stay at the internship 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:

**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 a diploma for the **Internship Program in Naval and Ocean Engineering** 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 Naval and Ocean Engineering**

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  
development languages  
virtual classroom



Internship Program  
Naval and Ocean Engineering

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