

# Postgraduate Diploma

## Wind Farm Financing, Construction, and Operation



## Postgraduate Diploma Wind Farm Financing, Construction, and Operation

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitude.com/us/engineering/postgraduate-diploma/postgraduate-diploma-wind-farm-financing-construction-operation](http://www.techtitude.com/us/engineering/postgraduate-diploma/postgraduate-diploma-wind-farm-financing-construction-operation)

# Index

01

Introduction to the Program

---

*p. 4*

02

Why Study at TECH?

---

*p. 8*

03

Syllabus

---

*p. 12*

04

Teaching Objectives

---

*p. 18*

05

Career Opportunities

---

*p. 22*

06

Study Methodology

---

*p. 26*

07

Teaching Staff

---

*p. 36*

08

Certificate

---

*p. 40*

01

# Introduction to the Program

Investment in wind energy has reached record levels, with over \$130 billion allocated to new projects worldwide. In fact, wind farms are typically financed through a combination of private capital, green bonds, and credits from international financial institutions, allowing businesses and governments to share risks. The construction of these farms involves significant technological advancements, such as more efficient wind turbines and the use of artificial intelligence to optimize their performance. In this context, TECH Global University has developed a 100% online program that can be accessed using only an electronic device with an internet connection. Additionally, it employs the innovative Relearning methodology, a pioneering learning technique at this institution.







“

*With this 100% online program, you will gain in-depth technical knowledge about the construction and operation of wind farms, while also being trained in project management and financing”*

In Spain, the Financing, Construction, and Operation of Wind Farms have gained significant momentum in recent years, thanks to the support of financial institutions such as the European Investment Bank (EIB). Recently, major projects have been completed, such as the Alfanar mega-project, which received €385 million to build 21 wind farms across various autonomous communities, with a total capacity of 547 MW.

This is the foundation of this program, where the key elements of the process will be analyzed, from civil construction to the electromechanical assembly of wind turbines. In this sense, you will learn to prioritize the most important project stages and manage the risks associated with each phase, using advanced planning methods to ensure efficient and safe development.

Regarding the operation and maintenance (O&M) of wind farms, the curriculum will focus on preventive and corrective maintenance strategies, necessary to ensure long-term operational success. It will also delve into regulations related to safety, health, and the environment, which are essential for operations at these farms. Additionally, the program will address the specific challenges of offshore wind turbines, emphasizing the need to optimize costs and improve operational efficiency in more complex environments.

Finally, wind project financing options will be explored, with a focus on Project Finance, a technique that facilitates the financing of large investments. In this way, engineers will be able to identify and mitigate financial, regulatory, and operational risks that could impact the economic viability of a wind farm.

TECH has developed a comprehensive program that is fully online and adaptable, allowing graduates to avoid inconveniences such as commuting to a physical location or adjusting to fixed schedules. Additionally, they will benefit from the revolutionary Relearning methodology, based on the repetition of key concepts for the efficient and natural assimilation of the content.

This **Postgraduate Diploma in Wind Farm Financing, Construction, and Operation** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in engineering focused on Wind Energy
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ The availability of access to the contents from any fixed or portable device with an Internet connection



*Thanks to this program, you will significantly contribute to sustainability and emissions reduction goals, aligning with government and business policies that promote the use of clean energy"*

“

*You will tackle the essential elements of civil construction and electromechanical assembly of wind farms, using the best educational materials available in the academic market, at the forefront of technology and education”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

*You will implement preventive and corrective maintenance plans designed to maximize operational efficiency and extend the lifespan of wind turbines, supported by an extensive library of innovative multimedia resources.*

*You will delve into various wind energy project financing options, with a special focus on Project Finance, a key tool for financing large investments. What are you waiting for to enroll?*



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 relies on an enormous faculty of more than 6,000 professors of the highest international renown.





“

*Study at the world's largest online university  
and guarantee your professional success.  
The future starts 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 best online university in the world" 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 oriented to form the professionals of the future".

**Forbes**

The best online university in the world

The most complete  
**syllabus**

### The most complete syllabuses on the university scene

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

### The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. 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.

**↑  
TOP**  
international faculty

**⚙️**  
The most effective methodology

### A unique learning method

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

### 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 digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

**World's No.1**  
The World's largest online university



#### 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 become the leading university in employability. Ninety-nine percent 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.



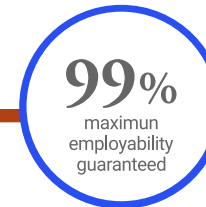
#### Google Premier Partner

The American technology giant has awarded 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 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.



# 03 Syllabus

Through the syllabus content, engineers will explore in-depth the construction of wind farms, covering aspects such as civil planning, electromechanical assembly, and risk management during the project execution. Topics on best practices in operation and maintenance will also be included, where strategies for preventive and corrective maintenance will be examined, along with safety and environmental regulations governing these installations. Additionally, the program will delve into project financing, analyzing financing structures such as Project Finance, identifying associated risks, and developing strategies to mitigate those risks.





“

*This program in Wind Farm Financing, Construction, and Operation will offer comprehensive content, designed to address the multiple facets of wind project development”*



## Module 1. Construction and Commissioning of Wind Farms

- 1.1. Preliminary Studies and Comprehensive Engineering Analysis
  - 1.1.1. Energy Resource
  - 1.1.2. Civil Studies
  - 1.1.3. Electrical Studies
- 1.2. Logistics, Transportation, and Storage of Wind Farm Components
  - 1.2.1. Route Study
  - 1.2.2. Logistics and Transportation
  - 1.2.3. Component Storage
- 1.3. Construction of Junctions, Roads, Foundations, and Mounting Platforms for Wind Farms
  - 1.3.1. Junctions
  - 1.3.2. Roads and Mounting Platforms
  - 1.3.3. Foundations
- 1.4. Trenches and Installation of Electrical and Communication Cabling for Wind Farm Setup
  - 1.4.1. Civil Works
  - 1.4.2. Cable Laying
  - 1.4.3. Border Points in High Voltage (HV) and Electrical Substation (ES)
- 1.5. Cranes for Wind Turbine Assembly
  - 1.5.1. Auxiliary Cranes
  - 1.5.2. Main Crane
  - 1.5.3. Crane Configuration
- 1.6. Assembly of Towers, Nacelle, and Blades for Wind Turbines
  - 1.6.1. Tower Assembly
  - 1.6.2. Nacelle Assembly
  - 1.6.3. Blade Assembly
- 1.7. Commissioning of the Wind Farm
  - 1.7.1. Cold Commissioning
  - 1.7.2. Hot Commissioning
  - 1.7.3. Grid Integration



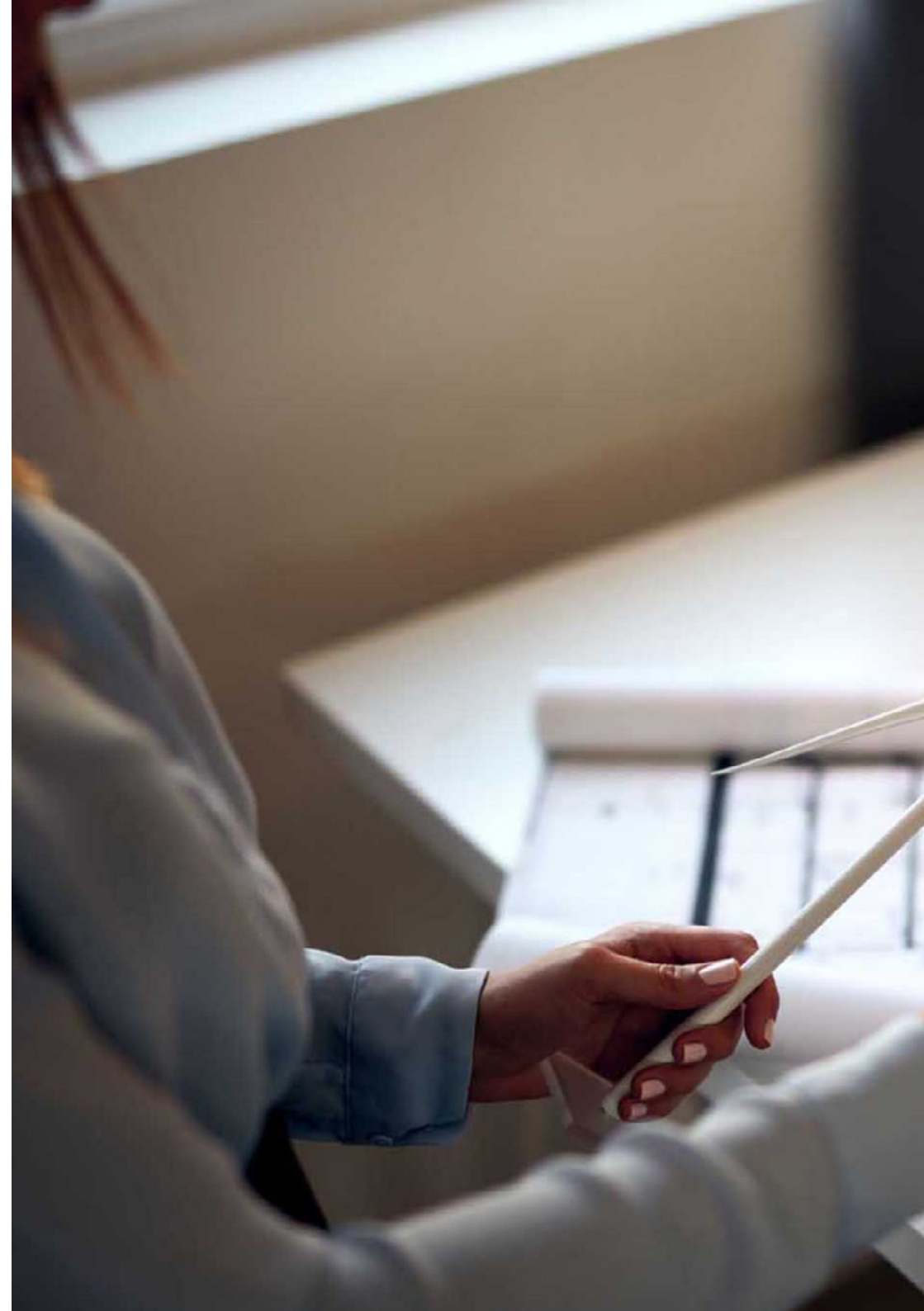
- 1.8. Technical-Economic Considerations for Wind Farm Construction
  - 1.8.1. Turbine Supply Agreement (TSA)
  - 1.8.2. Balance of Plant (BoP) and Interconnection
  - 1.8.3. CAPEX
- 1.9. Scheduling and Planning for Wind Farm Execution
  - 1.9.1. TSA Scheduling
  - 1.9.2. BoP Scheduling
  - 1.9.3. Interconnection Scheduling

## Module 2. Operation and Maintenance of Wind Farms

- 2.1. Operation and Maintenance (O&M) of Wind Farms
  - 2.1.1. Importance of O&M (Operation and Maintenance) in Wind Energy
  - 2.1.2. Wind Turbines Life Cycle
  - 2.1.3. Key Players in O&M (Operation and Maintenance) of Wind Energy
- 2.2. Maintenance and Reliability Strategies in Wind Farms
  - 2.2.1. Preventive Maintenance Strategies
  - 2.2.2. Corrective Maintenance Strategies
  - 2.2.3. Reliability and Failure Analysis in Wind Turbines
  - 2.2.4. Optimization of Maintenance Plans
- 2.3. Scheduled Maintenance Protocols and Wind Farm Inspections
  - 2.3.1. Establishing Maintenance Schedules
  - 2.3.2. Routine Inspection Techniques
    - 2.3.2.1. Visual Inspections
    - 2.3.2.2. Drone Inspections
  - 2.3.3. Use of Predictive Maintenance Tools
    - 2.3.3.1. Vibration Analysis
    - 2.3.3.2. Thermography
- 2.4. Fault Diagnosis and Troubleshooting in Wind Turbines
  - 2.4.1. Common Wind Turbine Failures
  - 2.4.2. Diagnostic Techniques
  - 2.4.3. Troubleshooting Procedures
  - 2.4.4. Case Studies of Fault Resolution
- 2.5. Advanced Monitoring and Control Systems for Wind Farms
  - 2.5.1. SCADA Systems in Wind Energy
  - 2.5.2. Real-Time Monitoring Technologies
  - 2.5.3. Data Analysis for Predictive Maintenance
  - 2.5.4. Remote Operations and Maintenance
- 2.6. Operation and Maintenance (O&M) of Offshore Wind Turbines
  - 2.6.1. Specific Challenges of Offshore O&M
  - 2.6.2. Maintenance Strategies for Offshore Wind Farms
  - 2.6.3. Access and Logistics
  - 2.6.4. Use of Autonomous and Remote-Controlled Systems
- 2.7. Health, Safety, and Environmental Considerations in Wind Farm Operation and Maintenance
  - 2.7.1. International Health and Safety Regulations in Wind Energy O&M
  - 2.7.2. Risk Assessment and Management
  - 2.7.3. Environmental Impact and Mitigation Strategies
  - 2.7.4. Emergency Response Planning
- 2.8. Cost Management and Economic Considerations
  - 2.8.1. Cost Structure of Wind Energy O&M
  - 2.8.2. Strategies to Reduce Maintenance Costs
  - 2.8.3. Economic Impact of Maintenance Strategies
  - 2.8.4. Financial Models for O&M Planning
- 2.9. Technological Innovations in Wind Energy O&M
  - 2.9.1. Emerging Technologies in Wind Turbine Maintenance
  - 2.9.2. Role of Artificial Intelligence and Machine Learning
  - 2.9.3. Future Trends in Wind Energy O&M
  - 2.9.4. Integration of Renewable Energy Systems
- 2.10. Successful O&M Programs and Industry Best Practices
  - 2.10.1. Successful O&M Programs
  - 2.10.2. Lessons Learned from Industry Leaders
  - 2.10.3. Best Practices for Wind Energy O&M
  - 2.10.4. Future Directions and Research Opportunities

### Module 3. Financing Wind Energy Projects

- 3.1. Financing Energy Infrastructure Projects
  - 3.1.1. Infrastructure Projects
  - 3.1.2. Financing in Infrastructure Development
  - 3.1.3. Economic and Social Impact of Infrastructure Projects
- 3.2. Key Players in the Financing of Wind Energy Projects
  - 3.2.1. Project Developers
  - 3.2.2. Private Investors
  - 3.2.3. Financial Institutions
- 3.3. Financing Structures for Wind Farms
  - 3.3.1. Types of Financing Structures
  - 3.3.2. Design and Optimization of Capital Structure
  - 3.3.3. Financing Structures in Wind Energy Projects
- 3.4. Project Finance for Financing Energy Projects
  - 3.4.1. *Project Finance*
  - 3.4.2. Differences Between Project Finance and Other Forms of Financing
  - 3.4.3. Stages of Project Finance
- 3.5. Risks and Mitigation in Wind Energy Project Financing
  - 3.5.1. Risk Classification
  - 3.5.2. Risk Mitigation Strategies
  - 3.5.3. Risk Mitigation Examples in Wind Energy Projects
- 3.6. Financial Modeling for Wind Farms
  - 3.6.1. Financial Modeling
  - 3.6.2. Financial Modeling of the 3 Main Financial Statements
  - 3.6.3. Stages in Building a Financial Model
- 3.7. Key Assumptions and Critical Parameters in the Financial Modeling of a Wind Energy Project
  - 3.7.1. Defining the Base Case
  - 3.7.2. Validation and Adjustment of Assumptions
  - 3.7.3. Scenario Evaluation







- 3.8. Valuation and Assessment Techniques for Wind Energy Projects
  - 3.8.1. Valuation Methods
  - 3.8.2. Sensitivity and Scenario Analysis
  - 3.8.3. Case Study Examples of Wind Energy Project Valuation
- 3.9. International Regulatory Analysis and Its Financial Impact on Energy Projects
  - 3.9.1. International Regulatory Framework and Government Policies
  - 3.9.2. Impact of Incentives and Subsidies on Project Financing
  - 3.9.3. Case Study Examples of International Regulatory Frameworks
- 3.10. Current and Future Trends in Wind Energy Project Financing
  - 3.10.1. Innovations in Wind Energy Project Financing
  - 3.10.2. Examples of Innovation in Wind Energy Project Financing
  - 3.10.3. Future Trends

“

*With the momentum of Renewable Energies this qualification will position you better to contribute to the energy transition and tackle the challenges of climate change”*

04

# Teaching Objectives

The objectives of the university program will focus on equipping engineers with comprehensive and applied knowledge in the wind energy sector. They will be trained in the efficient management of wind farm projects, covering everything from the construction phase to operations and maintenance, with a particular emphasis on sustainable financing. Additionally, professionals will be able to identify and manage risks, implement cost optimization strategies, and apply health and safety regulations, ensuring the viability and sustainability of the projects.





“

*By the end of the program, you will be prepared to lead initiatives in a constantly evolving sector, contributing to the transition toward a cleaner and more sustainable energy future. With all the quality guarantees from TECH!”*





## General Objectives

---

- ♦ Delve into the components and protection equipment of electrical substations
- ♦ Determine the processes and stages of civil construction, electromechanical assembly, and commissioning of a wind farm
- ♦ Determine the importance of operations and maintenance in wind farms
- ♦ Analyze different maintenance strategies and their impact on the reliability and efficiency of wind turbines
- ♦ Analyze the fundamentals of infrastructure project financing, with a particular focus on wind energy project financing
- ♦ Estimate the risks associated with financing wind projects and the existing risk mitigation strategies



*You will acquire skills in identifying and mitigating financial risks, as well as implementing effective maintenance strategies, positioning yourself as a leader in the job market"*





## Specific Objectives

---

### Module 1. Construction and Commissioning of Wind Farms

- ♦ Describe the main items of civil construction, electromechanical assembly, and commissioning of a wind farm
- ♦ Differentiate the order of importance of the stages and items in the construction of a wind farm
- ♦ Determine how to manage the key risks in the construction of Wind Farms
- ♦ Analyze the planning methods used in the construction of Wind Farms

### Module 2. Operation and Maintenance of Wind Farms

- ♦ Determine preventive and corrective maintenance strategies and how they are implemented in Wind Farms
- ♦ Examine health, safety, and environmental regulations relevant to O&M in Wind Energy
- ♦ Analyze the specific O&M challenges and strategies for offshore wind turbines
- ♦ Evaluate the cost structure and develop strategies to reduce maintenance costs

### Module 3. Financing Wind Energy Projects

- ♦ Analyze the most common structures for wind farm financing
- ♦ Explore the particularities and advantages of Project Finance that differentiate this technique from other financing structures
- ♦ Identify and categorize the different types of risks in financing Wind Energy Projects and apply effective risk mitigation strategies for each type of risk



# 05

## Career Opportunities

Professionals will be able to access key positions in Renewable Energy companies, serving as project managers, responsible for the financial and operational planning of wind farms, or as consultants in investment structuring. Additionally, they will be qualified to lead teams in the construction of wind infrastructure, manage the maintenance of wind farms, and optimize operational profitability, ensuring compliance with financial, regulatory, and environmental requirements. They will also be able to collaborate with financial institutions and government agencies in evaluating and determining the economic feasibility of Renewable Energy projects, contributing to the sustainable development of the wind sector.





“

*This Postgraduate Diploma in Wind Farm Financing, Construction, and Operation will open a wide range of career opportunities for engineers interested in the comprehensive management of Wind Energy projects”*

### Graduate Profile

The graduate of the Postgraduate Diploma in Wind Farm Financing, Construction, and Operation will be a highly skilled professional capable of managing wind projects from their conception to execution and operation. With a solid technical and financial knowledge, they will be able to lead the planning and construction of wind farms, ensuring their economic viability and optimizing available resources. Additionally, they will be prepared to manage the financing of these projects, evaluate risks, develop investment strategies, and coordinate operations to maximize the efficiency and profitability of the installations.

*You will work in collaborative teams, coordinating technical, economic, and regulatory aspects to drive the efficient and sustainable development of Wind Energy.*

- ♦ **Project Management:** Plan, coordinate, and manage wind projects from conception to execution, ensuring adherence to timelines, budgets, and quality standards
- ♦ **Multidisciplinary Teamwork:** Collaborate with professionals from various fields (Civil Engineering, Electrical Engineering, Environmental Engineering, etc.), optimizing interactions to address the challenges of the wind energy sector in an integrated and efficient manner
- ♦ **Innovation and Problem-Solving:** Identify opportunities for improvement, propose innovative solutions, and tackle complex technical and operational challenges in the development and maintenance of wind facilities
- ♦ **Communication and Leadership:** Communicate effectively in both technical presentations and negotiations with stakeholders, and lead teams in wind projects, facilitating decision-making and the implementation of strategies





After completing the program, you will be able to use your knowledge and skills in the following positions:

- 1. Wind Project Manager:** Leads and coordinates wind farm projects, overseeing their planning, construction, and commissioning, ensuring that the project is executed within budget and on schedule.
- 2. Specialist in Wind Energy Project Financing:** Manages the financial aspects of wind projects, including finding investors, creating financial models, and evaluating risks.
- 3. Wind Farm Construction Director:** Directly supervises the construction of wind farms, ensuring that technical standards and safety regulations are met in the execution of infrastructure.
- 4. Wind Operations Engineer:** Supervises and manages the daily operations of wind farms, optimizing energy production, conducting performance analysis, and ensuring that the facilities operate efficiently and safely.
- 5. Consultant in Wind Energy Project Financing:** Provides advisory services to companies, governments, and investment funds, assisting in financial structuring, capital raising, and evaluating the economic feasibility of Wind Energy projects.
- 6. Risk Analyst in Wind Energy Projects:** Specializes in identifying, analyzing, and mitigating risks associated with the financing, construction, and operation of wind farms, using modeling tools to predict potential contingencies.
- 7. Sustainability Coordinator in Wind Energy Projects:** Ensures that wind projects comply with environmental and social criteria, managing environmental impact studies, implementing sustainable practices, and adhering to current regulations.
- 8. Wind Project Quality Control Manager:** Implements and supervises quality standards, ensuring that materials, equipment, and processes meet the established technical specifications and regulations.



06

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*



### The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

“

*At TECH you will NOT have live classes  
(which you might not be able to attend)”*





### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“

*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”*

## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”*

### The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



### The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

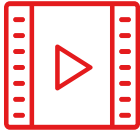
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### Interactive Summaries

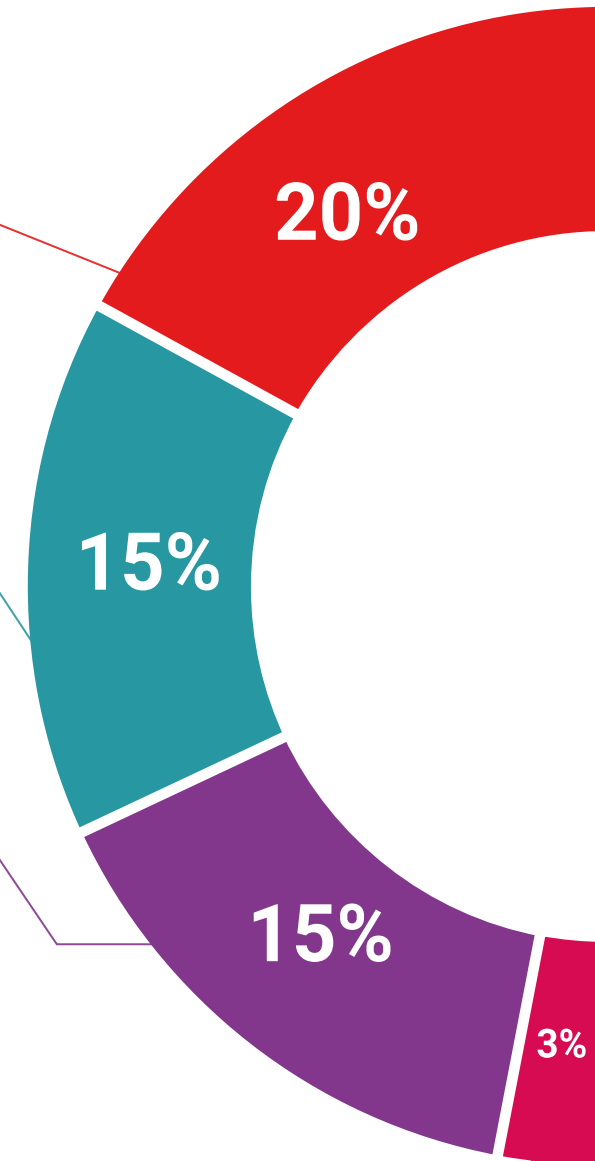
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

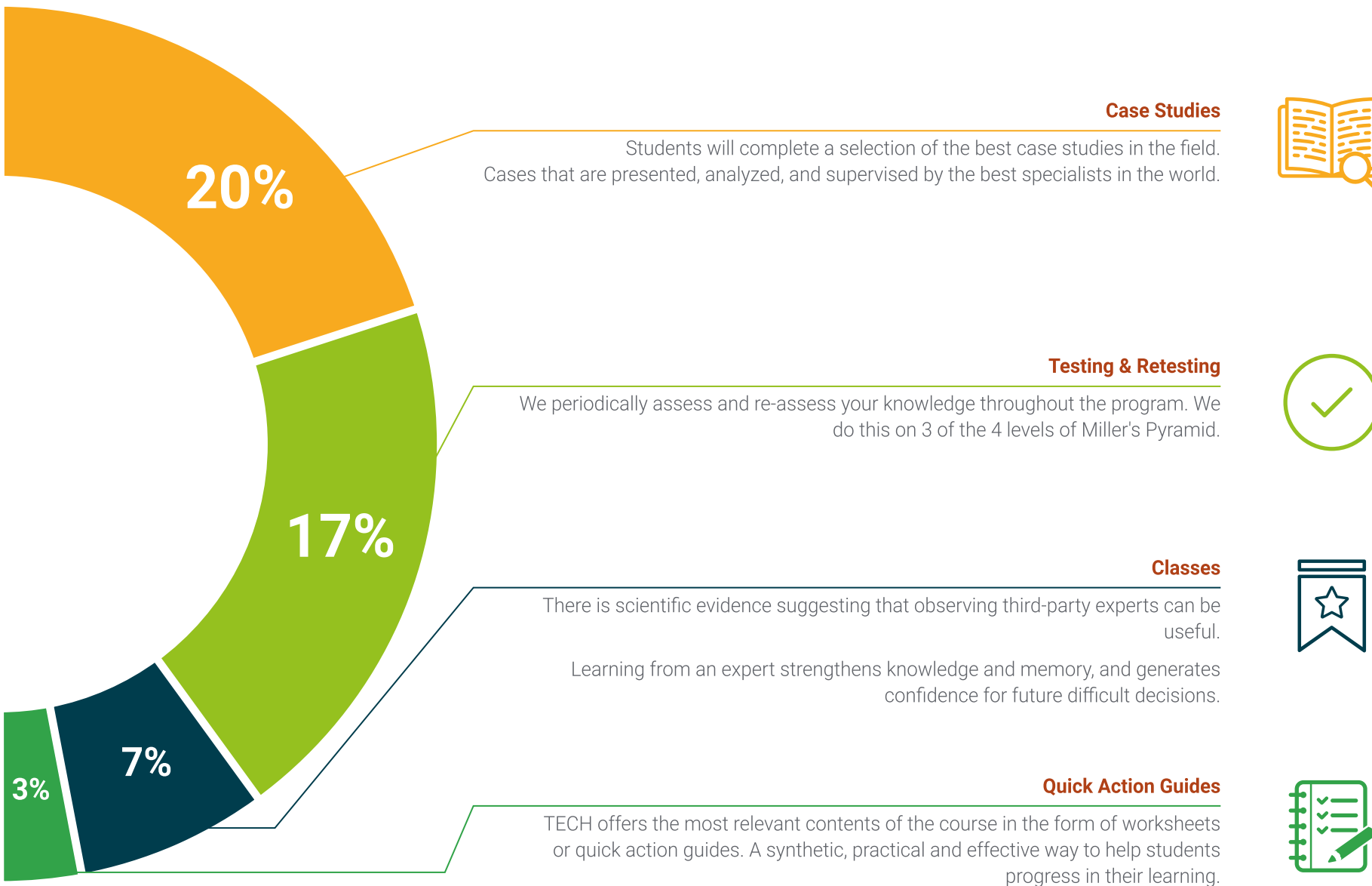
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





07

# Teaching Staff

The teaching staff is composed of highly qualified professionals with extensive experience in the Renewable Energy sector. In fact, they not only have solid academic backgrounds but have also worked on real-world wind farm projects, allowing them to offer a practical and up-to-date perspective on the challenges and opportunities facing the industry. Additionally, the diversity of their experience includes areas such as Engineering, project management, financing, and environmental regulations, which will enrich the learning process and provide graduates with a multidisciplinary approach.





“

*The teachers are involved in innovative research and development in Renewable Energies, ensuring that the study content aligns with the latest market trends and technologies”*

## Management



### **Mr. Melero Camarero, Jorge**

- ♦ Deputy Director of Construction at Eney, Vienna
- ♦ Country Manager for Spain at Ezzing Solar
- ♦ General Manager of Environmental and Social Consulting at Natura Medioambiente
- ♦ Deputy Director of the Renewable Energy Division at Alatec Ingenieros Consultores y Arquitectos
- ♦ Director of the Renewable Energy Department at Gestionna Soluciones Energéticas
- ♦ Renewable Energy Project Director at ABO Wind Spain
- ♦ Master's Degree in Business Administration (MBA)
- ♦ Master's Degree in Renewable Energy Consulting
- ♦ Bachelor's Degree in Industrial Engineering from the Polytechnic University of Valencia



## Teachers

### Mr. Martínez Fanals, Rubén

- ◆ Chief Financial Officer at REAL Infrastructure Capital Partners, United States
- ◆ Product Marketing Manager at Alstom Renewable Power
- ◆ Sales Engineer at Gamesa Eólica
- ◆ Account Manager at ThyssenKrupp Rothe Erde
- ◆ Executive Program in Algorithmic Trading (EPAT) by Quantinsti
- ◆ Certification in Advanced Financial Modelling by Full Stack Modeller
- ◆ Certification in Essential Financial Modelling by Gridlines
- ◆ Master's Degree in Renewable Energies by the University of Zaragoza
- ◆ Degree in Chemical Engineering from the University of Zaragoza
- ◆ Diploma in Business Administration and Management from Columbus IBS

### Mr. De Oliveira, Roberth

- ◆ Fleet Performance Engineer at GE Vernova
- ◆ EMEA Fleet Support Specialist at GE Vernova
- ◆ Automation Project Engineer at ENC Energy
- ◆ Operations Support Engineer for Venezuela, Trinidad and Tobago at Schlumberger Drilling & Measurements
- ◆ Field Engineer (MWD and LWD) at Schlumberger Drilling & Measurements
- ◆ Degree in Electronic Engineering and Telecommunications from Dr. Rafael Belloso Chacín University



08

# Certificate

This Postgraduate Diploma in Wind Farm Financing, Construction, and Operation guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Diploma issued by TECH Global University.



“

*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This private qualification will allow you to obtain a diploma for the **Postgraduate Diploma in Wind Farm Financing, Construction, and Operation** 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: **Postgraduate Diploma in Wind Farm Financing, Construction, and Operation**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**







## Postgraduate Diploma Wind Farm Financing, Construction, and Operation

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Wind Farm Financing, Construction, and Operation