

Postgraduate Diploma Wind Farm Engineering



Postgraduate Diploma Wind Farm Engineering

- » 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-engineering

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01

Introduction to the Program

Wind Farm Engineering is rapidly expanding, especially in the offshore sector, where significant growth is anticipated. In fact, the Biden administration has approved several projects, reaching over 10 gigawatts of capacity, enough to power nearly four million homes in the United States. These efforts are part of an ambitious goal to reach 30 gigawatts of Offshore Wind Energy by 2030. In this context, TECH has launched a fully online program that only requires an electronic device with an internet connection to access all educational resources. Additionally, it is based on the innovative learning methodology called Relearning, which is pioneering at this institution.



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With this 100% online program, you will cover everything from the systems that make up a wind turbine, to the design of civil infrastructure, and electrical systems”

Wind Farm Engineering is at a transformative moment, with notable growth driven by technological advancements and a strong global commitment to sustainability. Additionally, the industry is prioritizing the implementation of predictive maintenance over reactive maintenance, using data and automated technologies to improve efficiency and reduce long-term costs.

This program focuses on understanding the various components of a wind turbine, as well as the roles each part plays in the overall functioning of the installation. It will also include the evaluation of the mechanics, aerodynamics, and electrical systems that work together to maximize efficiency and energy production.

Moreover, it will delve into meticulous planning from the early stages of the project, ensuring that every aspect of Civil Engineering is considered. This will include identifying the various disciplines involved, from Geotechnics to terrain structuring, ensuring that the construction is safe, efficient, and environmentally respectful.

Additionally, professionals will analyze communication technologies, crucial for the efficient operation of a wind farm, as well as data acquisition systems that enable continuous monitoring of each wind turbine's performance. This will be key to implementing solutions that optimize energy production and facilitate data-driven, real-time decision-making.

To support all of this, TECH Global University has created an exhaustive, fully online, and flexible program, allowing graduates to avoid inconveniences such as commuting to a physical location and adjusting to a fixed schedule. Furthermore, students will benefit from the revolutionary Relearning methodology, which focuses on repeating key concepts to achieve optimal and natural understanding of the content.

This **Postgraduate Diploma in Wind Farm Engineering** 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



You will not only expand your professional skills but also enhance your employability in an expanding job market, alongside the best digital university in the world, according to Forbes: TECH"

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You will examine the data acquisition systems of wind turbines, allowing you to understand how operational data is collected and used to maximize the efficiency and performance of a wind farm”

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 delve into the essential elements that make up a wind turbine, as well as its functionality and design, through the best educational materials available in the academic market, at the forefront of technology and education.

*You will apply planning processes for the development of a wind farm from the early stages of the project, managing the various Civil Engineering disciplines involved.
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.



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*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".

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.

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.



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.

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 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.

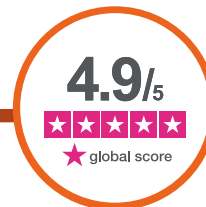
Leaders in employability

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.



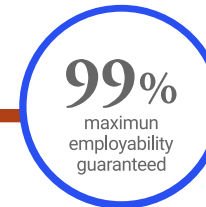
Google Premier Partner

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

In this university program, the systems and components of wind turbines will be analyzed, allowing engineers to understand their operation and the role each part plays in energy generation. The design and planning of the civil infrastructure necessary for the development of wind farms and their substations will also be covered, emphasizing the importance of adapting these projects to their environment. Additionally, electrical and communication systems, which are essential for the efficient operation of wind turbines, will be examined, including data acquisition to optimize energy performance management.





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The study of Wind Farm Engineering will cover a wide range of topics designed to provide you with the skills needed to tackle the challenges of the energy sector”

Module 1. Wind Technology: The Wind Turbine

- 1.1. Types of Wind Turbines
 - 1.1.1. Generation Capacity
 - 1.1.2. Rotor Axis Arrangement
 - 1.1.3. Equipment Positioning Relative to the Wind
 - 1.1.4. Number of Blades
 - 1.1.4.1. Based on Electric Generator Type
 - 1.1.4.2. Type of Control and Regulation System
 - 1.1.4.3. Based on Wind Type
- 1.2. Wind Turbine Components
 - 1.2.1. Main Components of the Darrieus Wind Turbine
 - 1.2.2. Main Components of the Savonius Wind Turbine
 - 1.2.3. Main Components of the Horizontal Axis Wind Turbine
- 1.3. Wind Turbine Tower
 - 1.3.1. Tower and Its Types
 - 1.3.2. Design Criteria
 - 1.3.3. Foundation
- 1.4. Wind Turbine Power Train
 - 1.4.1. Low-Speed Rotor Shaft
 - 1.4.2. Gearbox and Its Components
 - 1.4.3. High-Speed Shaft and Flexible Coupling
- 1.5. Wind Turbine Generator
 - 1.5.1. Types of Generators in Wind Turbines
 - 1.5.2. Power Converter
 - 1.5.3. Electrical Protection Systems
- 1.6. Wind Turbine Blades
 - 1.6.1. Hub and Blade Components
 - 1.6.2. Pitch System
 - 1.6.3. Blade Bearing



- 1.7. Wind Turbine Orientation System
 - 1.7.1. Vane System
 - 1.7.2. Yaw System
 - 1.7.3. Hydraulic Group and Brake System
 - 1.8. Wind Turbine Transformer
 - 1.8.1. Transformer Station
 - 1.8.2. Collector System
 - 1.8.3. Sectioning Cell
 - 1.9. Anemometers of the Wind Turbine
 - 1.9.1. Wind Measurement
 - 1.9.2. Types of Anemometers
 - 1.9.3. Anemometer Calibration
 - 1.10. Wind Turbine Obstruction Lights
 - 1.10.1. Lighting Type
 - 1.10.2. Air Safety Standards
 - 1.10.3. Grouping of Wind Turbines
- Module 2. Civil Engineering Design for Wind Farm Construction**
- 2.1. Programming and Planning of Wind Farm Civil Works
 - 2.1.1. Civil Works for Wind Farms
 - 2.1.2. Project Analysis
 - 2.1.3. Engineering Process Scheduling and Planning
 - 2.2. Geotechnics. General Parameters for Wind Farm Design
 - 2.2.1. Geotechnical Characteristics to Assess for Project Design
 - 2.2.2. Types of Tests
 - 2.2.3. Test Layout Map
 - 2.3. Wind Turbine Foundations
 - 2.3.1. International Regulatory Framework
 - 2.3.2. Types of Foundations
 - 2.3.3. Foundation Analysis Based on Ground Characteristics
 - 2.4. Shallow Foundations for Wind Turbines
 - 2.4.1. Calculation Methodology
 - 2.4.2. Wind Turbine Foundation. Calculation Example
 - 2.4.3. Construction Procedure
 - 2.5. Deep Foundations for Wind Turbines
 - 2.5.1. Calculation Methodology
 - 2.5.2. Wind Turbine and Wind Resource Tower Foundation. Calculation Example
 - 2.5.3. Construction Procedure
 - 2.6. Roads and Access for Wind Farms
 - 2.6.1. Calculation Methodology
 - 2.6.2. Roads and Access for Wind Farms. Calculation Example
 - 2.6.3. Construction Procedure
 - 2.7. Trenches for Cabling
 - 2.7.1. Trench Layout and Characterization
 - 2.7.2. Geometric Definition of Trenches
 - 2.7.3. Construction Procedure
 - 2.8. Wind Turbine Assembly Platforms
 - 2.8.1. Calculation Methodology for Platform Design
 - 2.8.2. Platform Design. Calculation Example
 - 2.8.3. Wind Turbine Construction Procedure
 - 2.9. Civil Works for the Substation. Power Transformer and Medium/High Voltage Equipment
 - 2.9.1. Civil Engineering Applied to the Substation
 - 2.9.2. Transformer Bank. Calculation Example
 - 2.9.3. Construction Procedure
 - 2.10. Civil Works for the Substation. Control and Measurement Building
 - 2.10.1. Characterization of the Control and Measurement Building
 - 2.10.2. Floor Plan Description of a Control Building
 - 2.10.3. Construction Procedure

Module 3. Electrical and Communications Design for Wind Farms

- 3.1. Electrical Circuits in the Wind Farm: Low Voltage, Transformer, Distribution, Substation
 - 3.1.1. Electrical Distribution Networks
 - 3.1.2. Distribution Substations
 - 3.1.3. Low Voltage Network Components
- 3.2. Alignment of Wind Turbines and Single-Line Diagrams
 - 3.2.1. The Wind Farm
 - 3.2.2. Electrical Symbols
 - 3.2.3. Single-Line Diagram of a Wind Turbine
 - 3.2.4. Single-Line Diagram of Medium Voltage Collector System
 - 3.2.5. Single-Line Diagram of Generation Substation
- 3.3. Medium Voltage Transformers
 - 3.3.1. Medium Voltage Transformer
 - 3.3.2. Electrical Connections
 - 3.3.3. Protection Systems
- 3.4. Substation (I). High Voltage Transformer
 - 3.4.1. High Voltage Transformer
 - 3.4.2. Electrical Connections
 - 3.4.3. Protection Systems
- 3.5. Substation (II). High Voltage Side and Connection to the Electric Company
 - 3.5.1. Outdoor Park
 - 3.5.2. Switchgear
 - 3.5.3. Disconnectors
- 3.6. Substation (III). Medium Voltage Cells and Protection
 - 3.6.1. Medium Voltage Cell
 - 3.6.2. Current and Voltage Transformers
 - 3.6.3. Electrical Connections





- 3.7. Fiber Optic Network for Communication and Monitoring System
 - 3.7.1. Fiber Optic Systems. Advantages and Disadvantages
 - 3.7.2. Fiber Optic Configurations
 - 3.7.3. Fiber Optic Network in Wind Farms
- 3.8. Capacitor Banks in the Substation
 - 3.8.1. Capacitor Bus
 - 3.8.2. Current Collectors
 - 3.8.3. Crowbar
- 3.9. SCADA. Wind Farm Measurement Parameters
 - 3.9.1. SCADA System Configuration
 - 3.9.2. Monitoring Parameters
 - 3.9.3. Technology and Hardware
- 3.10. SCADA. Communication and Operation with the Electric Company
 - 3.10.1. International Standards and Grid Codes
 - 3.10.2. Client SCADA Operation
 - 3.10.3. Local-Remote Operation

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This combination of technical knowledge and commitment to sustainability will make engineers invaluable in a world that increasingly prioritizes clean and renewable energy”

04

Teaching Objectives

This academic qualification aims to ensure that engineers gain a deep understanding of the systems and components that make up a wind turbine, enabling them to understand its operation and apply best practices in its maintenance. Additionally, skills will be developed in the planning and design of civil works, ensuring that wind farms are built efficiently and sustainably. The program will also delve into the implementation of electrical and communication systems that optimize data collection and the operation of wind turbines, facilitating informed decision-making.



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The objectives of the program will be focused on preparing highly skilled professionals who can design, manage, and optimize the infrastructure required for Wind Energy generation”



General Objectives

- ♦ Examine energy transformation through the components of the wind turbine
- ♦ Describe the types, components, advantages, and disadvantages of all wind turbine configurations in relation to their control and regulation systems
- ♦ Identify the different sectors of civil engineering that may be involved in wind farms and substations
- ♦ Analyze the systems that integrate communication in wind turbines
- ♦ 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





Specific Objectives

Module 1. Wind Technology: The Wind Turbine

- ♦ Examine the systems that make up a wind turbine
- ♦ Describe the function of each component of a wind turbine

Module 2. Civil Engineering Design for Wind Farm Construction

- ♦ Apply a planning process in the initial stage of designing a Wind Farm and the associated substation
- ♦ Identify and design each civil engineering discipline involved in Wind Farms and substations

Module 3. Electrical and Communications Design for Wind Farms

- ♦ Analyze the communication systems that make up a Wind Farm
- ♦ Describe the function of the data acquisition systems in a wind turbine



You will actively contribute to the energy transition towards sustainable sources, aligning with global objectives for emissions reduction and environmental sustainability. With all the quality guarantees from TECH!"

05

Career Opportunities

Engineers will be able to work in companies specializing in the design, construction, operation, and maintenance of wind farms, holding key roles in optimizing energy production and managing wind infrastructure. They will also have the opportunity to work in wind resource evaluation, conducting feasibility studies and planning the integration of wind farms into the electrical grid. Additionally, their profile will be highly sought after by consulting firms and government agencies to lead Renewable Energy projects, advise on environmental regulations, and promote sustainability in the energy transition.





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The Postgraduate Diploma in Wind Farm Engineering will provide engineers with a wide range of professional opportunities within the Renewable Energy sector”

Graduate Profile

The graduate of this Postgraduate Diploma in Wind Farm Engineering will be a highly skilled professional capable of managing, designing, and optimizing wind farms at all stages, from planning to operation and maintenance. With a technical and practical focus, they will master the design of wind infrastructure, the selection of appropriate technologies, and the analysis of resources and economic feasibility. Additionally, they will be prepared to integrate innovative solutions in the field of Wind Energy, ensuring the efficiency and sustainability of all their projects.

You will address key aspects such as environmental impact assessment, managing multidisciplinary teams, and optimizing energy production, positioning yourself as a leader in the Renewable Energy industry.

- ♦ **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 Engineer:** Responsible for the planning, design, and execution of wind farm projects, ensuring that the projects meet technical, financial, and sustainability standards.
2. **Wind Farm Operations Engineer:** In charge of supervising and managing the daily operation of wind farms, aiming to maximize turbine efficiency and energy production.
3. **Wind Maintenance Engineer:** Responsible for preventive and corrective maintenance of wind turbines and other wind farm infrastructure, ensuring continuous and efficient operation.
4. **Wind Project Manager:** Leads teams and coordinates all phases of a wind project, from planning to final delivery, managing resources, timelines, and budgets to ensure the project's profitability and success.
5. **Wind Resource Assessment Specialist:** Specializes in the measurement and analysis of wind resources, determining the feasibility of installing wind farms at various locations through meteorological data collection and predictive models.
6. **Wind Energy Consultant:** Provides technical advice to companies and governments on the implementation and optimization of wind projects, conducting feasibility studies, environmental impact analysis, and improvement recommendations.
7. **Wind Energy Integration Engineer:** Responsible for integrating Wind Energy production into the electrical grid, ensuring the stability and efficiency of the energy transmission system.
8. **Wind Environmental Impact Technician:** Conducts environmental impact studies related to the installation and operation of wind farms, evaluating effects on wildlife, flora, and the landscape, and proposing measures to mitigate potential negative impacts.

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.



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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.

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*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.

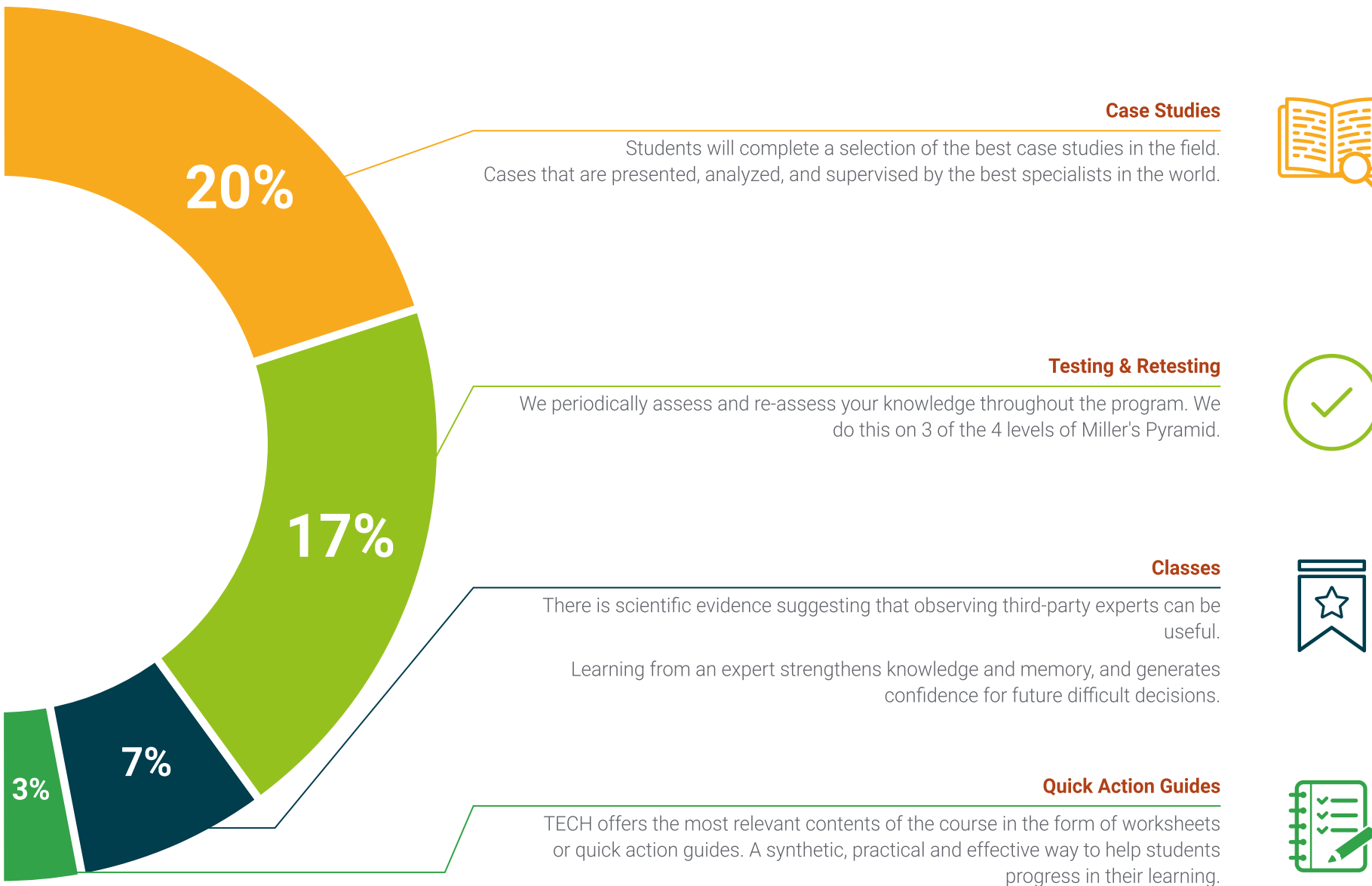
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 teachers are highly qualified professionals with a solid track record in the field of Renewable Energy. In fact, these mentors will not only provide theoretical knowledge but also guide graduates through practical cases and data analysis, promoting applied learning that will enrich the educational experience. Additionally, they are involved in the development of sustainable solutions, enabling them to offer a cutting-edge perspective aligned with emerging trends in the field of Wind Engineering.



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The multidisciplinary approach of the instructors will ensure efficient preparation to face the challenges of a constantly evolving and growing market, such as that of Wind Energy”

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. Gea de la Torre, Francisco Javier

- ♦ Engineering Director at EOSOL
- ♦ Head of the Engineering Team in Spain at EOSOL
- ♦ Civil Supervisor of Wind Farm, in the Community of Aragon, at EOSOL
- ♦ Coordinator of the Civil Engineering Department and Project Manager at EOSOL
- ♦ Civil Engineer for Electrical Substations, Photovoltaic Plants, and Wind Farms at EOSOL
- ♦ Master in Business Administration (MBA) from the University of Barcelona
- ♦ Master's Degree in Civil Engineering from the University of Santander
- ♦ Graduate in Civil Engineering, specializing in Civil Construction, from the University of Jaén
- ♦ Bachelor's Degree in Civil Engineering from the University of Santander

Mr. Flores Sandoval, Edwin Marcelo

- ♦ Electromechanical Engineer
- ♦ Project Engineer at Multipronin Ingeniería y Proyectos
- ♦ Senior Technologist in Administration from the Rumiñahui Higher Technological Institute
- ♦ Master's Degree in Renewable Energy from the International University of Ecuador
- ♦ Master's Degree in Business Administration with a specialization in Strategic Project Management from the University of the Americas
- ♦ Master's Degree in Digital Law with a specialization in Legal Innovation and the Digital Environment from the University of the Hemispheres

08

Certificate

This Postgraduate Diploma in Wind Farm Engineering 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.



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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 Engineering** endorsed by TECH Global University, the world's largest online university.

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Title: **Postgraduate Diploma in Wind Farm Engineering**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**





Postgraduate Diploma Wind Farm Engineering

- » Modality: online
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- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma Wind Farm Engineering