

Postgraduate Certificate

Energy Sources in Organizations





Postgraduate Certificate Energy Sources in Organizations

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

Website: www.techtute.com/us/school-of-business/postgraduate-certificate/energy-sources-organizations

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01 Welcome

Being familiar with the main sources of energy is essential for business professionals who want to develop in the field of environmental and energy management. In order to improve the knowledge of these professionals, TECH has developed this program, which will analyze fossil fuels, extraction, generation and environmental impacts associated with them. In this way, an exhaustive analysis of renewable energy sources will be made, focusing on generation processes, the most recent innovations and energy sources under development. At the same time, the discredited nuclear energy will be studied, dealing in detail with the environmental benefits and risks, as well as the treatment of nuclear waste. Additionally, the student will have the opportunity to attend an exclusive Masterclass led by an international professor.



Postgraduate Certificate in Energy Sources in Organizations
TECH Global University



“

A unique program that will allow you to know, first hand, the main sources of energy, which is fundamental for your work as an energy advisor or consultant”

02

Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class center for intensive managerial skills education.



“

TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"

At TECH Global University



Innovation

The university offers an online learning model that balances the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"*Microsoft Europe Success Story*", for integrating the innovative, interactive multi-video system.



The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95% | of TECH students successfully complete their studies



Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

+100000

executives prepared each year

+200

different nationalities



Empowerment

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

+500

collaborative agreements with leading companies



Talent

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



Multicultural Context

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



Analysis

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



Academic Excellence

TECH offers students the best online learning methodology. The university combines the Relearning method (postgraduate learning methodology with the best international valuation) with the Case Study. Tradition and vanguard in a difficult balance, and in the context of the most demanding educational itinerary.



Economy of Scale

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



Learn with the best

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



At TECH, you will have access to the most rigorous and up-to-date case analyses in academia"

03

Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you education of the highest academic level”

This program will provide you with a multitude of professional and personal advantages, among which we highlight the following:

01

A Strong Boost to Your Career

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of students achieve positive career development in less than 2 years.

02

Develop a strategic and global vision of the company

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional fields.

Our global vision of companies will improve your strategic vision.

03

Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.

04

You will take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.

05

Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.

06

Thoroughly develop business projects.

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different fields in companies.

20% of our students develop their own business idea.

07

Improve *soft skills* and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.

08

You will be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified teachers from the most prestigious universities in the world: the TECH Global University community.

We give you the opportunity to study with a team of world-renowned teachers.

04 Objectives

The main objective of this TECH program is to provide business professionals with the necessary skills in the field of Energy Sources, so that they are able to successfully develop professionally. A program that will allow students to achieve the objectives set throughout their careers in order to successfully develop professionally, quickly turning their careers around.



“

Improve your skills thanks to the superior study this program offers”

**TECH makes the goals of their students their own goals too
Working together to achieve them**

This **Postgraduate Certificate in Energy Sources in Organizations** will enable students to:

01

Gain an in-depth understanding into business organization and climate change mitigation strategies

04

Develop and implement environmental and energy improvements

02

Conduct energy audits



03

Conduct environmental impact assessments

05

Master the most commonly used fuels and fuel consuming equipment

06

Develop a solid understanding of the main energy sources used globally and innovations in the energy industry

08

Analyze the operation, advantages and disadvantages of renewable energies



09

Understand in detail the different processes of electrical and thermal generation

07

Gain an in-depth understanding of current energy sources and their impact on the environment

10

Identify the operation and application of developing energy sources

05

Structure and Content

TECH's teaching staff has prepared the syllabus of this Postgraduate Certificate in Energy Sources in Organizations in a way that allows students to take a first-class academic course. This way, its content includes the most up-to-date information of the moment in this subject together with a multitude of practical and interactive cases, which will be a significant improvement when it comes to self-guided learning.



“

A complete syllabus that will bring you up to date on energy sources”

Syllabus

The Postgraduate Certificate in Energy Sources in Organizations offered by TECH Global University is an intensive program that prepares students to face challenges and business decisions in the field of energy and environmental management. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Over 150 hours of study, students will analyze a multitude of practical cases through individual work, which will allow them to acquire skills required to develop successfully in their daily practice. It is, therefore, an authentic immersion in real business situations.

This program deals in-depth with different areas of the company and is designed for managers to learn about energy sources and their application, from a strategic, international and innovative perspective.

A plan designed especially for students, focused on their professional improvement and preparing them to achieve excellence in the field of environmental and energy management. A program that understands their needs and those of their company through innovative content based on the latest trends, and supported by the best educational methodology and an exceptional faculty, which will provide them with the skills to solve critical situations in a creative and efficient way.

It is a 6-week program, structured into one module:

Module 1

Energy sources



Where, When and How is it Taught?

TECH offers you the opportunity to study this Postgraduate Certificate in Energy Sources in Organizations completely online. During the 6 weeks that the specialization program lasts, the student will be able to access all the contents of this program at any time, which will allow them to manage their own study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.

Module 1. Energy sources

1.1. Fossil Fuels

- 1.1.1. Coal
- 1.1.2. Natural Gas
- 1.1.3. Oil

1.2. Electricity

- 1.2.1. Electricity
- 1.2.2. Electricity Generation
- 1.2.3. Uses of Electricity

1.3. Nuclear Energy

- 1.3.1. Nuclear Energy
- 1.3.2. Nuclear Power Plants
- 1.3.3. Environmental Opportunities
- 1.3.4. Environmental Risks
- 1.3.5. Nuclear Waste Treatment

1.4. Solar Energy

- 1.4.1. Electricity Generation
- 1.4.2. Thermal Generation
- 1.4.3. Solar Power Plants
- 1.4.4. Risks and Opportunities

1.5. Wind Energy

- 1.5.1. Wind Farms
- 1.5.2. Advantages and Disadvantages
- 1.5.3. Microgeneration

1.6. Biomass

- 1.6.1. Thermochemical and Biochemical Methods
- 1.6.2. The Biomass Market
- 1.6.3. Advantages and Disadvantages

1.7. Geothermal Energy

- 1.7.1. Geothermal Deposits
- 1.7.2. Electricity Generation
- 1.7.3. Advantages and Disadvantages

1.8. Other Renewable Energies

- 1.8.1. Hydraulic Energy
- 1.8.2. Tidal Energy
- 1.8.3. Wave Energy

1.9. Energy Sources in Development

- 1.9.1. Green Hydrogen
- 1.9.2. Tidal Energy
- 1.9.3. Biogas and Biomethane

1.10. Energy Sources for Mobility

- 1.10.1. Electric Vehicles
- 1.10.2. CNG Vehicles
- 1.10.3. Other Alternatives for Sustainable Mobility



“

The best teaching program in the current academic landscape”

06

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





“

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

TECH Business School uses the Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world*”



This program prepares you to face business challenges in uncertain environments and achieve business success.



Our program prepares you to face new challenges in uncertain environments and achieve success in your career.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.

“ *You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments”*

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

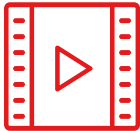
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



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.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



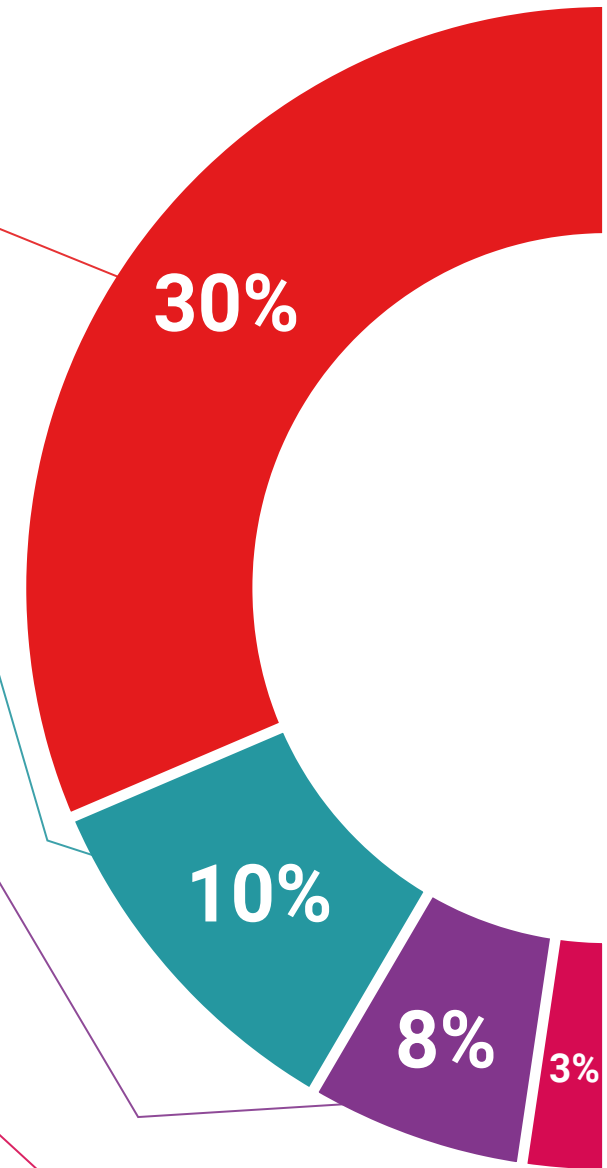
Management Skills Exercises

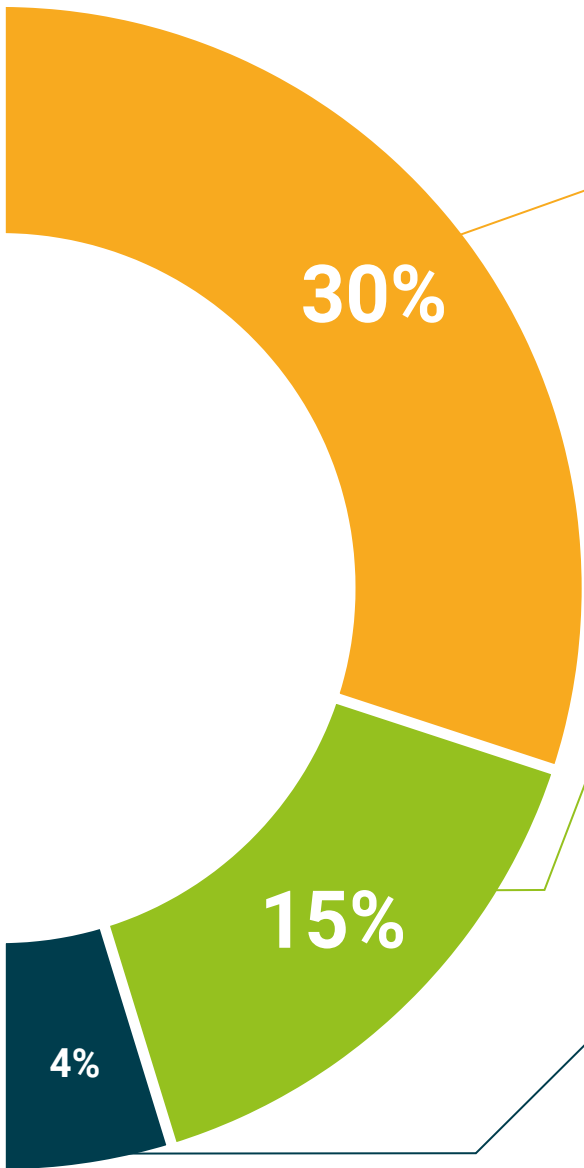
They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best senior management specialists in the world.



Interactive Summaries

The TECH team presents 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".



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



07

Our Students' Profiles

The student profile of this Postgraduate Certificate is focused on business professionals who, although having previous knowledge and experience in this field, decide to improve their qualification in a booming sector, which is increasingly demanding better-prepared professionals. These are people who are aware of the importance of continuous specialization to improve their skill set and daily practice, adding quality to their own work and, therefore, to the companies in which they develop professionally.





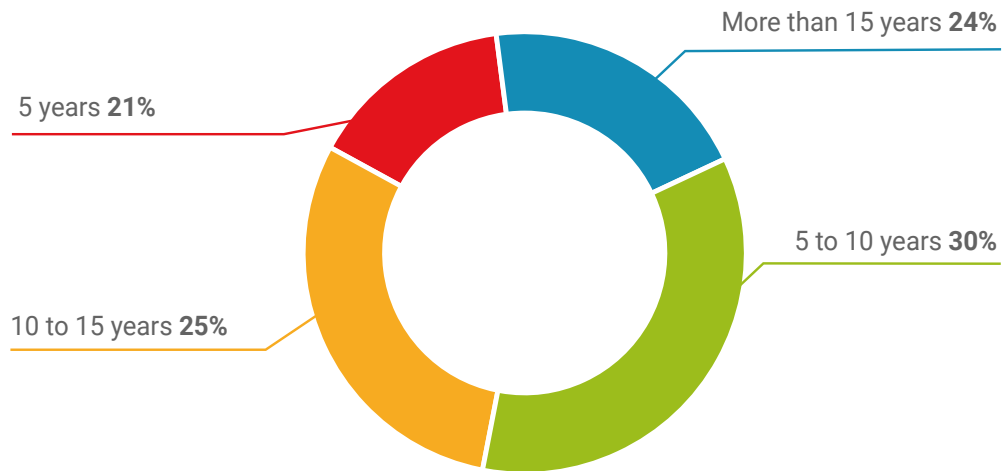
“

A program aimed at professionals with extensive experience in the sector who wish to improve their qualifications in this field"

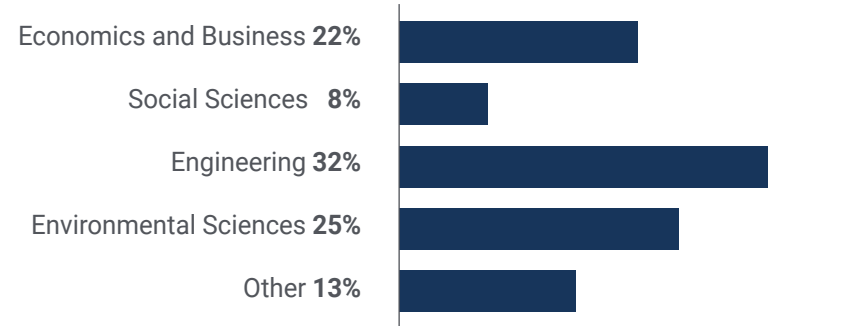
Average Age

Between **35** and **45** years old

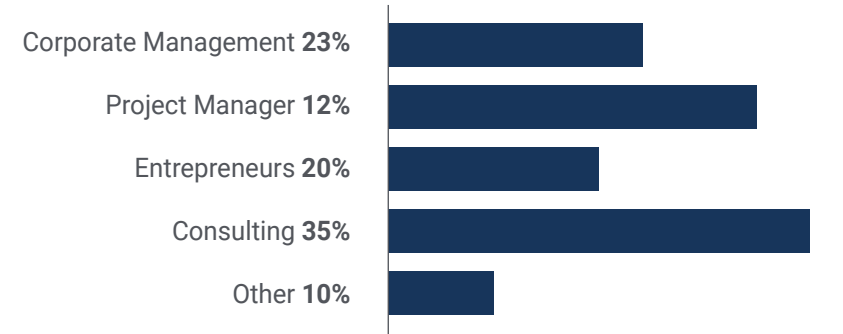
Years of Experience



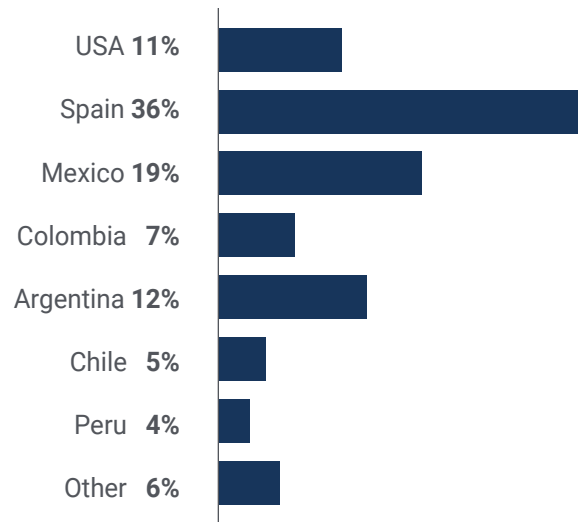
Training



Educational Profile



Geographical Distribution



Pablo Menéndez

Energy Consultant

"Completing this Postgraduate Certificate has been a quality bonus for my professional development, as it has allowed me to get up to date in a sector that is fundamental for my career. Undoubtedly, a highly recommended program for business professionals who want to get up to date on existing energy sources, especially those that are more sustainable"

08

Course Management

TECH has brought together a large teaching team that has selected the most up-to-date information available to prepare this comprehensive program. A Postgraduate Certificate that will mark a before and after of students' skills in the field of energy sources in organizations, since it will allow them to learn about those that are less polluting and that, therefore, can be put into practice more safely in their businesses.



“

The best teachers are in the best university, so do not think twice and enroll in this Postgraduate Certificate”

International Guest Director

With an exceptional professional career, Sarah Carson has focused her research on environmental compliance and sustainability in higher education. For more than 3 decades, she has been part of Cornell University's research team charged with implementing and analyzing the impact of policies for the care of natural resources. Thanks to her experience in this area of expertise, she has been chosen to lead the Office of Campus Sustainability at Cornell University.

In this way, this expert directs the electricity supply projects, aimed at reducing the carbon footprint of the higher education center. As such, she has implemented innovative technologies that help, for example, to maintain high temperatures during the winter in the educational facilities. Specifically, her team has opted to implement a renewable geothermal heat source called "ground-source heat", the beneficial results of which have already been reported in several global impact reports.

At the same time, she has actively participated in the energy policy of New York, related to the generation of renewable energy. To this end, she has collaborated in the volunteer program for the regional Greenhouse Gas Initiative in this US state. The latter is based on the Cap and Trade model, which allows the university, the local government and other participants to claim renewable energy credits.

As for her academic life, Carson holds a degree in Natural Resources Management and Policy from North Carolina State University. She also holds a degree in Environmental Science and Policy from the School of Environmental Science and Forestry at the State University of New York.



Ms. Carson, Sarah

- Director, Office of Sustainability, Cornell University, New York, United States
- Head of Campus Climate Action, Cornell University
- Environmental Management Specialist, Cornell University
- Environmental Information Officer, Cornell University
- B.S. in Natural Resource Management and Policy from North Carolina State University
- B.S. in Environmental Science and Policy from the State University of New York

“

Thanks to TECH you will be able to learn with the best professionals in the world"

Management



Mr. Abreu Acosta, Guzmán

- Technician in Territorial and Environmental Planning in Canarias S.A.
- Occupational Health and Safety Auditor, Specialization in OSHAS 18001
- Lawyer in his own law firm, specialized in Urban Development and Environmental Law



Professors

Mr. Contreras Acuña, Manuel

- ◆ Contract Researcher Department: Chemistry and Materials Science
- ◆ Doctor in Chemical Sciences Faculty of Experimental Sciences, University of Huelva
- ◆ Master's Degree in Instrumental Techniques in Chemistry, Faculty of Experimental Sciences, University of Huelva.
- ◆ Triple Master's Degree in Occupational Health and Safety, Quality and Environmental Management
- ◆ Interim Substitute Professor Department: Chemistry and Materials Science

“

A unique, crucial and decisive learning experience to boost your professional development”

09

Impact on Your Career

Business professionals looking for a professional improvement will find in this Postgraduate Certificate in Energy Sources in Organizations offered by TECH, a unique opportunity to increase their specialization in this field, with a first class syllabus and the best educational methodology of today. This way, this program will allow them to advance drastically in their profession, reaching levels of excellence in their daily practice.





“

Turn your career around and become one of the best in the industry”

Are you ready to take the leap? Excellent professional development awaits you

This Postgraduate Certificate in Energy Sources in Organizations from TECH Global University is an intensive and highly valuable program aimed at improving students' professional skills in an area of broad competence. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

Those who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH.

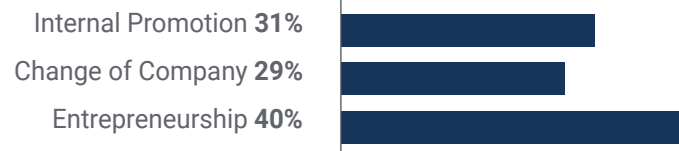
This Postgraduate Certificate is a unique learning opportunity to improve your knowledge in this field.

TECH gives you the opportunity to quickly improve your qualification on energy sources.

Time of change



Type of change



Salary increase

This program represents a salary increase of more than **25.22%** for our students



10

Benefits for Your Company

Nowadays, companies are demanding professionals with broad qualifications in everything related to sustainability and energy management, which will allow them to compete with ease in a market where environmental protection is increasingly present. For this reason, TECH has designed this Postgraduate Certificate, which will not only allow students to improve their knowledge of energy sources, but will also be beneficial for the companies in which they work, as they will be able to make the right decisions to apply the most sustainable ones.





“

Bring a new business vision to your company thanks to what you have learned in this TECH program"

Developing and retaining talent in companies is the best long-term investment.

01

Growth of talent and intellectual capital

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.

02

Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.

03

Building agents of change

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.

04

Increased international expansion possibilities

Thanks to this program, the company will come into contact with the main markets in the world economy.



05

Project Development

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.

06

Increased competitiveness

This program will equip students with the skills to take on new challenges and drive the organization forward.

11

Certificate

The Postgraduate Certificate in Environmental and Energy Sources in Organizations guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 **Postgraduate Certificate in Energy Sources in Organizations** 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 Certificate in Energy Sources in Organizations**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



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