



Postgraduate Diploma Big Data in Companies

» Modality: online» Duration: 6 months

» Certificate: TECH Global University

» Credits: 24 ECTS

» Schedule: at your own pace

» Exams: online

» Target Group: graduates or professionals of any specialty who want to be qualified in the application of data visualization technologies, Big Data and artificial intelligence for the development, boost or change of direction of their professional career

Website: www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-big-data-companies

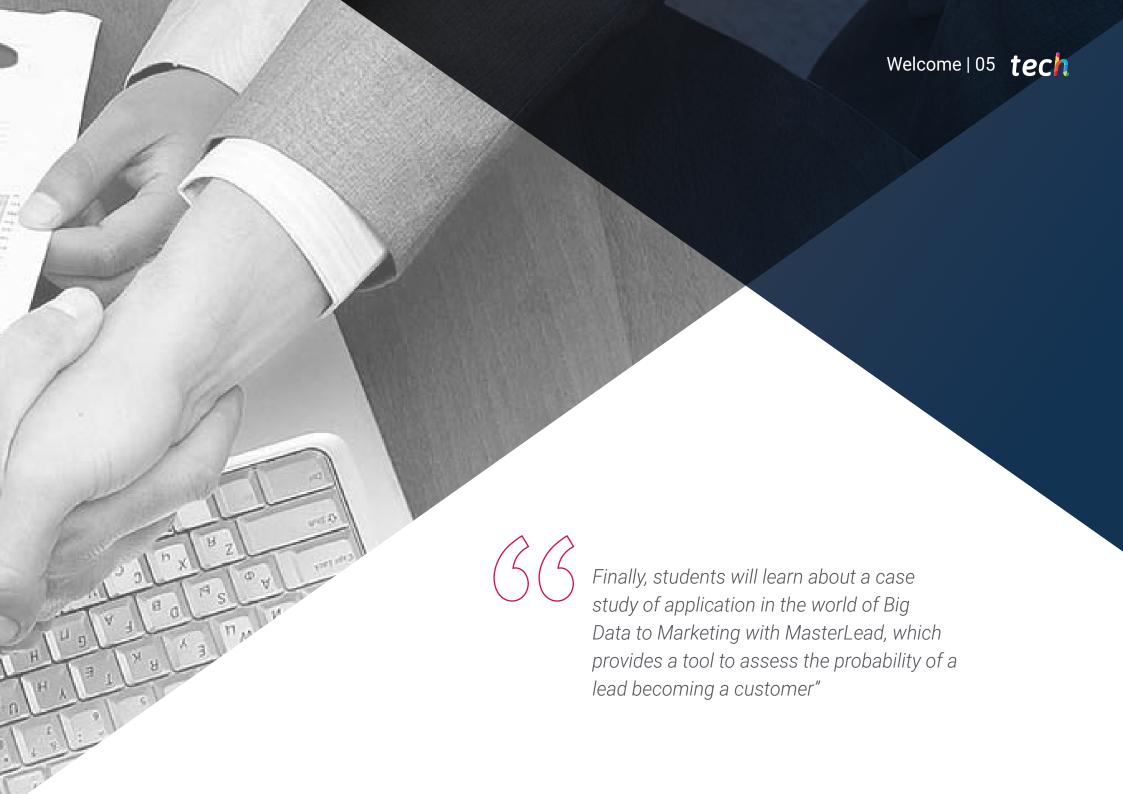
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01 Welcome

One of the keys to success in the implementation of Big Data technologies resides in the proper management of the related projects. This intensive program will provide students with skills for strategic project management through the contribution of best practices collected under the PMI, methodologies such as Kimball or a unique methodology in the world: SQuID, developed by a leading Spanish company in Big Data. These will be tools that, when placed in the student's hands, will allow them to tackle any type of project in this field.









tech 08 | Why Study at TECH?

At TECH Global University



Innovation

The university offers an online learning model that combines 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.

100,000+

200+

executives trained each year

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.



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 studies in the academic community"

Why Study at TECH? | 09 tech

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

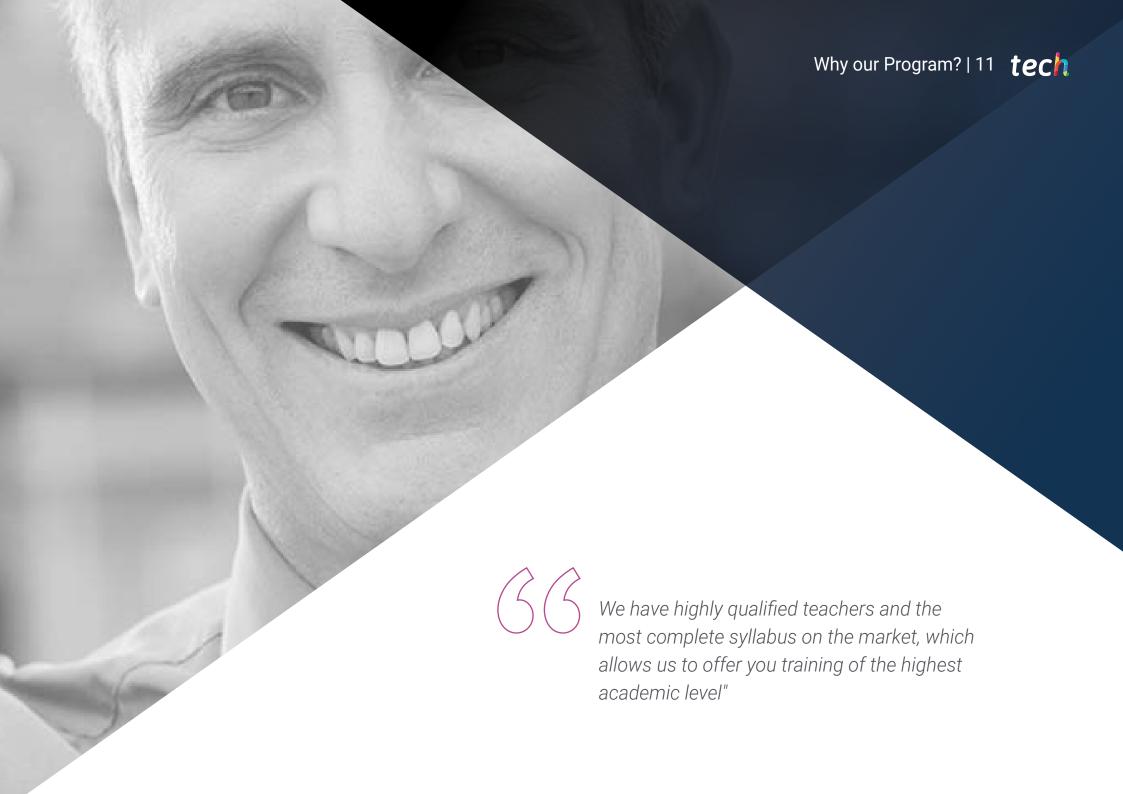
TECH offers students the best online learning methodology. The university combines the Relearning method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic 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 ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.





tech 12 | Why Our Program?

This program will provide students with a multitude of professional and personal advantages, particularly the following:



A significant career boost

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 participants achieve positive career development in less than 2 years.



Develop a strategic and global vision of companies

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

Our global vision of companies will improve your strategic vision.



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.



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.



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.



Thoroughly develop business projects

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

20% of our students develop their own business idea.



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.



Be part of an exclusive community

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

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





tech 16 | Objectives

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

The **Postgraduate Diploma in Big Data in Companies** prepares students to:



Know the best practices in PMI applied to the world of Big Data



Identify the legal issues of application related to the capture, storage and use of user data



Understand Kimball methodology





Know the SQuID methodology and its applicability in the development of projects with large volumes of data



Know how privacy can be provided in Big Data



Anticipate ethical risks and benefits derived from the application of big data techniques that may occur in real situations



Be able to design a central intelligence system (CRM) for decision support based on data analysis and visualization, and focused on the company's own context



09

Provide an introduction to the Internet as a massive source of real data based on user searches that can be utilized for decision making



Know the different types of marketing and how they are applied in organizations and their influence on business strategies



Develop open-source intelligence solutions, exploiting available data sources









tech 22 | Structure and Content

Syllabus

This Postgraduate Diploma in Big Data in Companies from TECH Global University is an intensive program that prepares students to face challenges and business decisions in the field of Big Data in Companies.

The content of the Postgraduate Diploma in Big Data in Companies is designed to promote the development of skills that enable more thorough decision-making in uncertain environments.

Over the course of 600 hours, the student analyzes a plethora of practical cases through individual practice and teamwork. It is, therefore, an authentic immersion in real business situations.

This Postgraduate Diploma deals, indepth, with the world of information technology in the business environment, and is designed to prepare professionals who understand Big Data in Companies from a strategic, international and innovative perspective.

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

This Postgraduate Diploma takes place over 6 months and is divided into 4 modules:

Module 1.	Strategic Management of Visual Analytics and Big Data Projects
Module 2.	Client Analysis. Applying Data Intelligence to Marketing
Module 3.	Data-Driven Soft Skills in Strategic Management in Visual Analytics
Module 4.	Visualization Tools



Where, When and How is it Taught?

TECH offers you the opportunity to study this Postgraduate Diploma in Big Data in Companies completely online. Throughout the 6 months of the educational program, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

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

tech 24 | Structure and Content

	Mod	ule 1. Strategic Management of Visual <i>i</i>	Analyt	cs and Big Data Projects				
,	1.1.	Introduction to Strategic Project Management	1.2.	Best practices in the Description of Big Data Processes (PMI)	1.3.	Kimball Methodology	1.4.1. 1.4.2. 1.4.3. 1.4.4. 1.4.5.	SQuID Methodology Introduction to SQuID Methodology to Approach Big Data Projects Phase I. Sources Phase II. Data Quality Phase III. Impossible Questions Phase IV. Discovering Best Practices in the Application of SQuID in Big Data Projects
·	1.5.	Legal Aspects in the World of Data	1.6.	Big DataPrivacy	1.7.	Cyber Security in Big Data	1.8.	Identification and De- identification with Large Volumes of Data
	1.9.	Data Ethics I	1.10.	Data Ethics II				
Module 2. Client Analysis. Applying Data Intelligence to Marketing								
2	2.1.	Concepts of Marketing. Strategic Marketing	2.2.	Relationship Marketing	2.3.	CRM as an Organizational Hub for Customer Analysis	2.4.	Web Technologies
2	2.5.	Web Data Sources	2.6.	Acquisition of Web Data	2.7.	Tools for the Extraction of Data from the Web	2.8.	Semantic Web
2	2.9.	OSINT: Open-Source Intelligence	2.10.	MasterLead or How to Improve Sales Conversion Using Big Data				

Module	3. Data-Driven Soft Skills in Stratec	gic Man	agement in Visual Analytics				
	rive Profile for Data-Driven rganizations	3.2.	Advanced Management Skills in Data-Driven Organizations	3.3.	Using Data to Improve Strategic Communication Performance	3.4.	Emotional Intelligence Applied to Management in Visual Analytics
3.5. Ef	ffective Presentations	3.6.	Improving Performance Through Motivational Management	3.7.	Leadership in Data-Driven Organizations	3.8.	Digital Talent in Data-Driven Organizations
3.9. Da	ata-Driven Agile Organization I	3.10	Data-Driven Agile Organization II				
Module	4. Visualization Tools						
	atroduction to Data Visualization ools	4.2.	Many Eyes	4.3.	Google Charts	4.4. j	Query
4.5. Da	ata-Driven Documents I	4.6.	Data-Driven Documents II	4.7.	Matlab	4.8.	Tableau
4.9. SA	AS Visual Analytics	4.10	Microsoft Power BI				



Understand the legal aspects related to user privacy and their right to protect their data, aspects to be complied with by any system that makes effective use of third-party data"



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.





tech 28 | Methodology

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.





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.

tech 30 | Methodology

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.



Methodology | 31 tech

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.





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

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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.

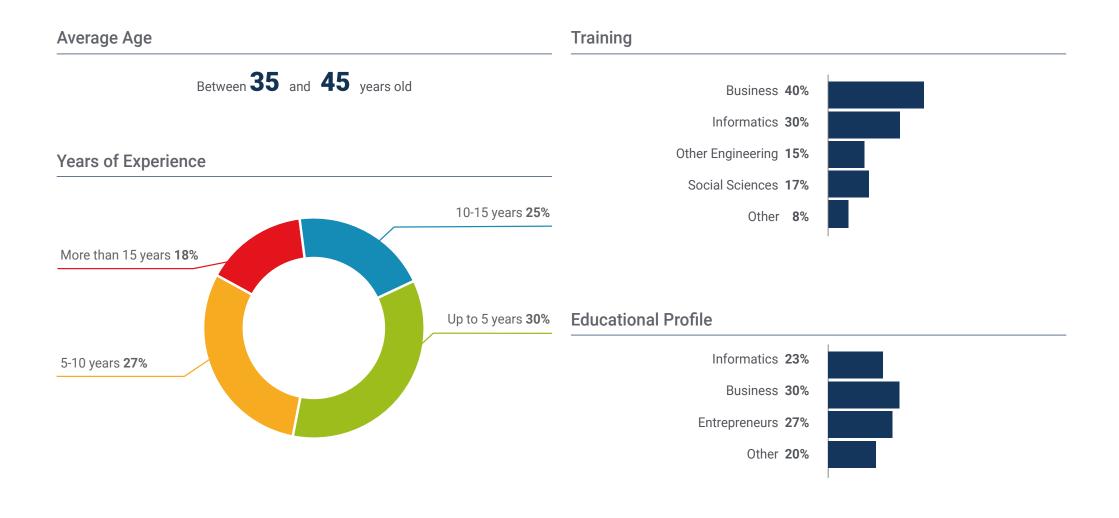


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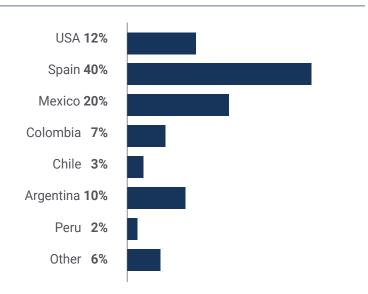




tech 36 | Our Students' Profiles



Geographical Distribution





Mirian Sánchez Benítez

Big Data Expert

"Specializing with TECH in Big Data has been a unique experience that I will certainly repeat. The quality of the contents taught is exceptional and the teaching staff, made up of professionals from the sector, is first class"





International Guest Director

Recognized as one of the best experts in Data Science by Forbes magazine, Robert Morgan is a distinguished mathematician highly specialized in the field of Computational Statistics. His extensive knowledge in this field has allowed him to be part of international reference institutions, such as the multinational Unilever.

In this way, he has led the Data Science strategy at a global level. In this sense, he has supervised multiple projects that use advanced analysis to optimize the strategic operations of companies. Among his major achievements, he has improved the shopping experience of multiple customers by offering them personalized product recommendations based on their preferences. As a result, it has enabled users to establish loyal relationships with brands. It has also employed Digital Twins in the manufacturing network, managing to monitor soap production in real time and significantly improving its quality.

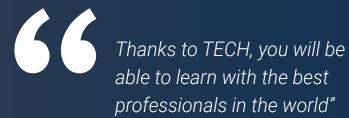
Moreover, his philosophy focuses on the use of data systems to solve complex problems in the business environment and drive innovation. In the same vein, in his spare time he develops software and participates in open source projects. As such, he stays at the forefront of the latest trends in subjects such as Bayesian Statistics, Big Data or Artificial Intelligence, among others.

In addition, his work has been rewarded on multiple occasions in the form of awards. For example, he recently received the "Business Achievement" award from Unilever for his contribution to the digital transformation of the company. In this regard, it is worth noting that the integration of technologies has enabled companies to improve their operational efficiency by automating repetitive tasks. This has considerably reduced human errors in the logistics chain, resulting in both time and cost savings.



Mr. Morgan, Robert

- Global Director of Data Science at Unilever in New York, United States
- Head of Analytics and Data Science at Dunnhumby, New York
- Statistician at Unilever, New York
- M.Sc. in Computational Statistics from Bacth University
- M.Sc. in Statistical Research from Bristol University
- B.Sc. in Mathematics, Cardiff University
- Certificate in Statistical Learning from Stanford University
- Certificate in Programming from Johns Hopkins University



tech 42 | Course Management

Management



Mr. Galindo, Luis Ángel

- Senior High-Performance Consultant with 16 years of experience
- Definition, development and implementation of a successful open innovation model, with +10% year-on-year revenue growth leveraged on innovative assets
- Definition, development and implementation of successful Digital Transformation Programs for more than 8 years and 700+ people leading a pioneering role in the industry
- Implementation of 20+ complex consulting projects worldwide for large companies in artificial intelligence, economic intelligence, cybersecurity, business development, digital transformation, risk assessment, process optimization and people management
- Expert in understanding customers and translating their needs into actual sales

Professors

Mr. Almansa, Antonio

- Senior Technician: operation, engineering and architecture of the Data Center (DC) networks located in Independencia and Orduña, as well as the transport network at national level for tariffs and discharges
- Level 2 Expert: design and implementation of the networks (with technological change) of the DC of Fco. Sancha and later Manuel Tovar
- Design, implementation and integration of the Julian Camarillo DC contingency center

Ms. Álvarez de las Cuevas, Mónica

- IT Engineer
- Project management with direct experience in the field of technical training and digital marketing solutions
- Coordination and management of both technical and business teams, for the analysis
 of the status and improvement of business procedures and implementation of
 new digital solutions

Mr. Lominchar, José

- PhD in Law (Labor Law Program) (UCJC)
- MBA: Master's Degree in Business Administration (MBA)
- Degree in Law (UCM) Spain
- Honorary PhD from the Legal Studies University Center in Mexico



Understand the legal aspects related to user privacy and their right to protect their data, aspects to be complied with by any system that makes effective use of third-party data"





Thanks to this program, you will receive a large number of job offers with which you will be able to start your professional growth.

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

With this program, professionals will be able to advance drastically in their profession, although there is no doubt that, in order to do so, they will have to make an investment in different aspects, such as economic, professional and personal areas.

However, the goal is to improve in your professional life and, to do so, it is necessary to fight.

Excellent professional development awaits you.

The best way to achieve professional change is to increase your skills. So don't stop studying at TECH.

Time of Change

During the program
23%

During the first year
21%

After 2 years
56%

Type of Change

Internal Promotion 41%
Change of Company 35%
Entrepreneurship 24%

Salary Increase

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

\$32,900

A salary increase of

25.22%

\$41,200





tech 50 | Benefits for Your Company

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



Intellectual Capital and Talent Growth

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



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.



Building agents of change

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



Increased international expansion possibilities

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





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.



Increased Competitiveness

This Postgraduate Diploma will equip your professionals with the skills to take on new challenges and therefore drive the organization forward.







tech 54 | Certificate

This program will allow you to obtain your **Postgraduate Diploma in Big Data in Companies** 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** title 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 Big Data in Companies

Modality: online

Duration: 6 months

Accreditation: 24 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Diploma in Big Data in Companies

This is a program of 600 hours of duration equivalent to 24 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}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.



Postgraduate Diploma Big Data in Companies

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 24 ECTS

» Schedule: at your own pace

» Exams: online

