Postgraduate Diploma
Information Use in Data Science

tech global university

Postgraduate Diploma
Information Use
in Data Science

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Global University**
- » Credits: **18 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**
- » Target Group: **university graduates and postgraduates who have completed a degree in computer engineering**

Website: **www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-information-use-data-science**

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01
Welcome

Data science has become a set of techniques, technologies and tools that allow analyzing, synthesizing and extracting the hidden knowledge of a company's information. Having a professional who takes advantage of this valuable information to make transcendental decisions is an asset that brings great value to the organization. This program will develop the leadership skills of computer engineers seeking a management position in theirfield of work. This will provide the possibility of examining the tools for data management through programming languages, as well as developing the technological reference architecture for network connectivity, constituting a more friendly ecosystem with the workers of a company.

Postgraduate Diploma in Information Use in Data Science
TECH Global University

Analyze the conditions that your team must meet to optimize the use and quality of data, becoming the leader that your organization needs"

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 centre for intensive managerial skills training.

tech

" 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 Technological 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+ executives trained 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:

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"

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.

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 training of the highest academic level"

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

01

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.

02

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.

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

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 areas 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

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 Technological University community.

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

04
Objectives

Computer engineers interested in data science will be provided with a complete and up-to-date program, which, at all times, will seek to develop their skills in this field. With these objectives as a guide for their learning, they will be able to determine the best practices for data management according to its typology and uses. In this way, they will be able to take the knowledge acquired in the program to their work practice.

"

Develop the necessary skills to examine the tools of data management using programming languages"

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

The **Postgraduate Diploma in Information Use in Data Science** qualifies students to:

01 Perform data analyses

02 Unify diverse data and achieve consistency of information

03 Produce relevant, effective information for decision making

04 Determine the best practices for data management according to its typology and uses

05 Establish data access and reuse policies of data

06 Ensure security and availability, integrity and confidentiality of information

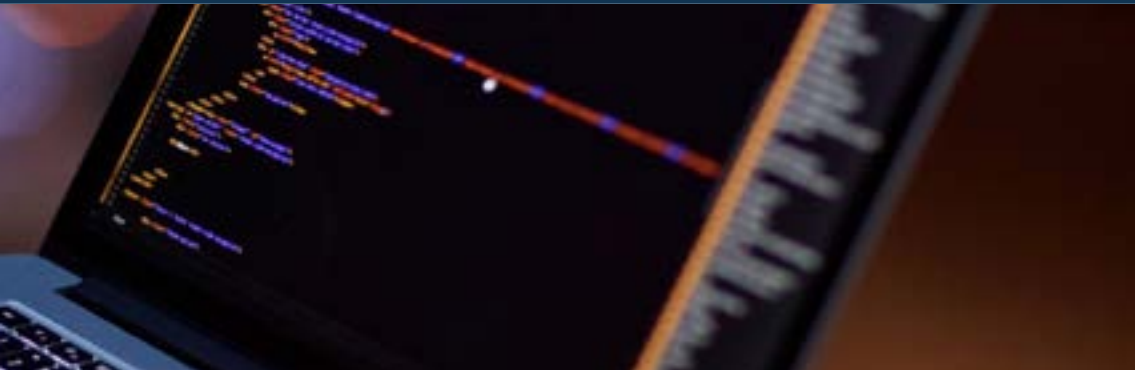**08** Identify IoT (Internet of Things) and IIoT (Industrial Internet of Things)

09 Review the Industrial Internet Consortium

07 Examine data management tools using programming languages

10 Analyze what is the IoT reference architecture

11 Address IoT sensors and devices and their classification

14 Determine the requirements of mass data usage systems

12 Identify communications protocols and technologies used in IoT.

13 Examine the different IoT Cloud platforms: general purpose, industrial, open source

15 Examine different data models and analyze databases

16 Analyze the key functionalities for distributed systems and their importance in different types of systems

18 Analyze the way in which databases store and retrieve information

19 Understand the different replication models and associated issues

17 Assess which widely used applications use the fundamentals of distributed systems to design their systems.

20 Develop ways of partitioning and distributed transactions

Structure and Content

This Postgraduate Diploma is characterized by an up-to-date program that meets the demands of a market that demands excellence in the management of a technology department. Thanks to its 100% online modality, students have access to the information from anywhere in the world. The duration of this educational program is 6 months and will be a unique and stimulating experience that will guarantee the success of the graduates.

It's time to promote the change that your industry needs, making the most of the information extracted from your organization's data to make accurate and objective decisions"

Syllabus

The Postgraduate Diploma in Information Use in Data Science at TECH Technological University will become a unique experience for computer engineers looking to face new work challenges.

In order to enhance the students' theoretical and managerial skills, the program content will enable them to manage a data structure, focusing on the typology and life cycle of data.

Throughout the 450 hours of the educational program, the student will understand the importance of IoT (Internet of Thing), which has become a revolution in the sector as it is the technological solution for companies seeking to create an ecosystem that enables industrial solutions. Therefore, it is an immersion of real business situations in the academic classroom.

Moving forward in the agenda, the technologies and tools on the market will be addressed, examining the principles of the most important components in a system that has to be designed to meet the challenge of big data. Knowing this information is valuable for the students, since it will favor their possibilities of aspiring to an important managerial position within their work team.

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules:

Module 1	Data and Information Management and Manipulation in Data Science
Module 2	IoT Devices and Platforms as the Basis for Data Science
Module 3	Architecture and Systems for Intensive Use of Data

Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Diploma in Information Use in Data Science completely online. Over the course of 6 months, 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.

Module 1. Data and Information Management and Manipulation for Data Science

1.1. Statistics. Variables, Indices and Ratios
1.1.1. Statistics
1.1.2. Statistical Dimensions
1.1.3. Variables, Indices and Ratios

1.2. Type of Data
1.2.1. Qualitative
1.2.2. Quantitative
1.2.3. Characterization and Categories

1.3. Data Knowledge from the Measurements
1.3.1. Centralization Measurements
1.3.2. Measures of Dispersion
1.3.3. Correlation

1.4. Data Knowledge from the Graphs
1.4.1. Visualization According to Type of Data
1.4.2. Interpretation of Graphic Information
1.4.3. Customization of graphics with R

1.5. Probability
1.5.1. Probability
1.5.2. Function of Probability
1.5.3. Distributions

1.6. Data Collection
1.6.1. Methodology of Data Collection
1.6.2. Data Collection Tools
1.6.3. Data Collection Channels

1.7. Data Cleaning
1.7.1. Phases of Data Cleansing
1.7.2. Data Quality
1.7.3. Data Manipulation (with R)

1.8. Data Analysis, Interpretation and Evaluation of Results
1.8.1. Statistical Measures
1.8.2. Relationship Indices
1.8.3. Data Mining

1.9. Data Warehouse
1.9.1. Components
1.9.2. Design

1.10. Data Availability
1.10.1. Access
1.10.2. Uses
1.10.3. Security/safety

Module 2. IoT Devices and Platforms as the Basis for Data Science

2.1. Internet of Things
2.1.1. Internet of the Future, Internet of Things
2.1.2. The Industrial Internet Consortium

2.2. Architecture of Reference
2.2.1. The Architecture of Reference
2.2.2. Layers
2.2.3. Components

2.3. Sensors and IoT Devices
2.3.1. Principal Components
2.3.2. Sensors and Actuators

2.4. Communications and Protocols
2.4.1. Protocols. OSI Model
2.4.2. Communication Technologies

2.5. Cloud Platforms for IoT and IIoT
2.5.1. General Purpose Platforms
2.5.2. Industrial Platforms
2.5.3. Open Code Platforms

2.6. Data Management on IoT Platforms
2.6.1. Data Management Mechanisms. Open Data
2.6.2. Data Exchange and Visualization

2.7. IoT Security
2.7.1. Requirements and Security Areas
2.7.2. Security Strategies in IIoT

2.8. Applications of IoT
2.8.1. Intelligent Cities
2.8.2. Health and Fitness
2.8.3. Smart Home
2.8.4. Other Applications

2.9. Applications of IIoT
2.9.1. Fabrication
2.9.2. Transport
2.9.3. Energy
2.9.4. Agriculture and Livestock
2.9.5. Other Sectors

2.10. Industry 4.0
2.10.1. IoRT (Internet of Robotics Things)
2.10.2. 3D Additive Manufacturing
2.10.3. Big Data Analytics

Module 3. Architecture and Systems for Intensive Use of Data

3.1. Non-Functional Requirements: Pillars of Big Data Applications
3.1.1. Reliability
3.1.2. Adaptation
3.1.3. Maintainability

3.2. Data Models
3.2.1. Relational Model
3.2.2. Document Model
3.2.3. Graph Type Data Model

3.3. Databases. Storage Management and Data Recovery
3.3.1. Hash Indexes
3.3.2. Log Structured Storage
3.3.3. Trees B

3.4. Data Coding Formats
3.4.1. Language-Specific Formats
3.4.2. Standardized Formats
3.4.3. Binary Coding Formats
3.4.4. Data Stream Between Processes

3.5. Replication
3.5.1. Objectives of Replication
3.5.2. Replication Models
3.5.3. Problems with Replication

3.6. Distributed Transactions
3.6.1. Transaction
3.6.2. Protocols for Distributed Transactions
3.6.3. Serializable Transactions

3.7. Partitions
3.7.1. Forms of Partitioning
3.7.2. Secondary Index Interaction and Partitioning
3.7.3. Partition Rebalancing

3.8. Offline Data Processing
3.8.1. Batch Processing
3.8.2. Distributed File Systems
3.8.3. MapReduce

3.9. Data Processing in Real Time
3.9.1. Types of Message Broker
3.9.2. Representation of Databases as Data Streams
3.9.3. Data Stream Processing

3.10. Practical Applications in Business
3.10.1. Consistency in Readings
3.10.2. Holistic Focus of Data
3.10.3. Scaling of a Distributed Service

This program will become an immersive business experience thanks to its case studies presented by experts"

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.*

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.

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

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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.

30%

10%

8%

3%

30%

15%

4%

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.

Our Students' Profiles

The Postgraduate Diploma is a program aimed at University Graduates and Postgraduates who have previously completed any of the following degrees in the field of computer engineering, systems engineering, software engineering, or any branch related to these fields of study.

This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.

The Postgraduate Diploma can also be taken by professionals who, being university graduates in any field, have two years of work experience in the field.
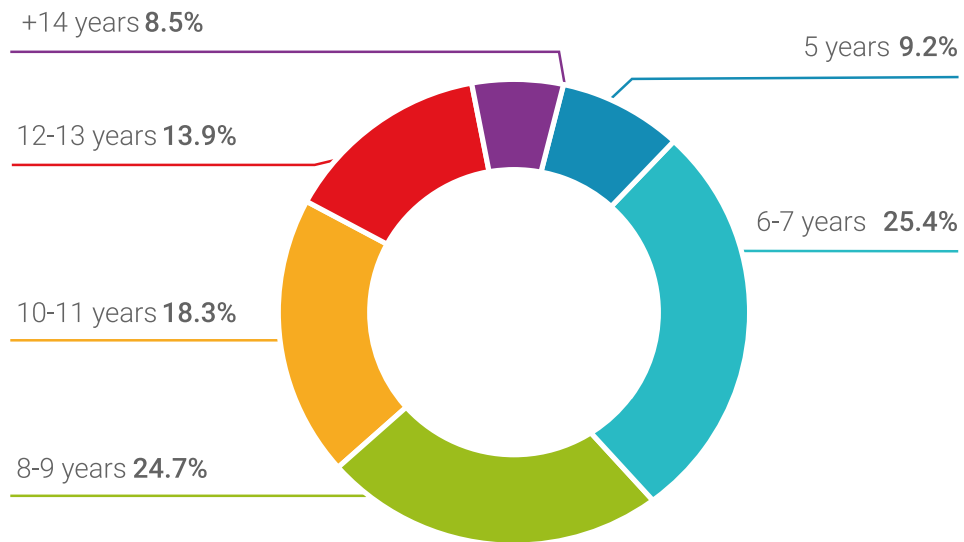
"

Prepare yourself to examine the various Cloud platforms in IoT, making you a top-notch professional"

Average Age

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

Years of Experience

+14 years **8.5%**

12-13 years **13.9%**

10-11 years **18.3%**

8-9 years **24.7%**

5 years **9.2%**

6-7 years **25.4%**

Training

Engineering **53%**

Business **31%**

Social Sciences **15%**

Economics **5%**

Academic Profile

Operations **20%**

Project Management **18%**

Marketing Sales **17%**

Finance **15%**

General Management **15%**

Consulting **9%**

Planning and Accounting **6%**
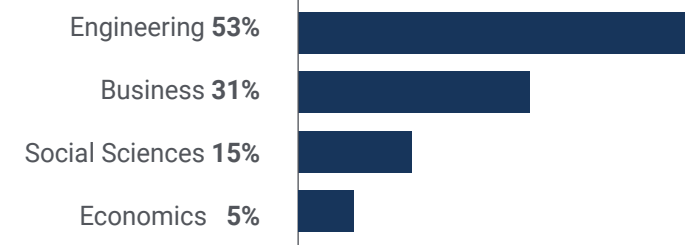
Geographical Distribution

Country	%
USA	**5%**
Spain	**44%**
Brazil	**4%**
Mexico	**14%**
Colombia	**8%**
Chile	**4%**
Argentina	**7%**
Peru	**8%**
Ecuador	**4%**
Dominican Republic	**2%**
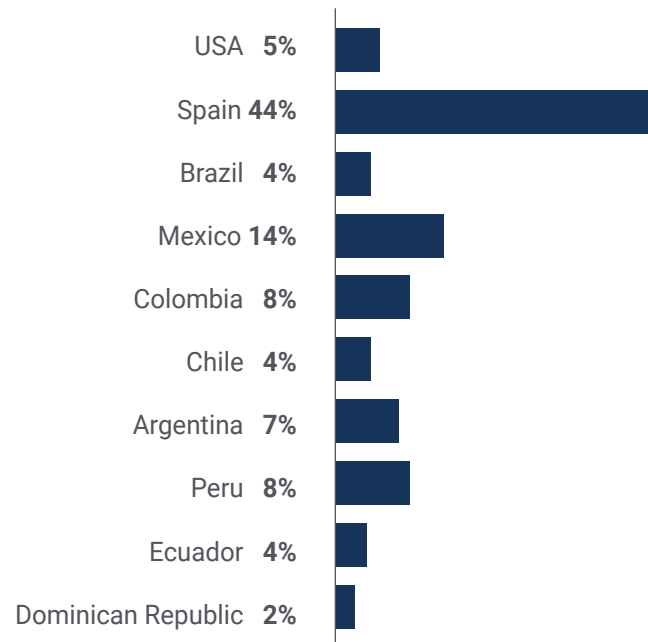
Alberto Romero

Process Developer

"When I started the program, I didn't think how much it would change my vision about business and managing a work team. Thanks to it, I have developed my skills to advance my career and opt for an impactful position in my team"

Course Management

In order to guarantee the excellence of the contents taught in the program, we have a team of highly qualified teachers with many years of experience in the sector of interest. That is why computer engineers interested in this field can be sure to receive current and specific knowledge of this booming international field.

Be part of the best, learning from a group of experts skilled in Data Science as a tool for business leaders"

International Guest Director

Dr. Tom Flowerdew is an internationally prominent personality in the field of **data science**. He has served as **Vice President** of **Data Science** at **MasterCard in London**. In this role, he has been responsible for the preparation, operation and strategy of a consolidated team in this area, with the mission to support a portfolio of **innovative products in payments**, fight against **money laundering (AML)** and analyze **cryptocurrency** use cases.

He has also been **Director** of **Data Science** in **Cyber Intelligence Solutions**, also at **MasterCard**, where he has led the integration of data to support revolutionary **cryptocurrency-based** products. In fact, his ability to handle complex **data** and develop **advanced solutions** has been instrumental to the success of multiple projects in the **cybersecurity** and **finance** space.

Similarly, for the company **Featurespace**, he has held several crucial roles, including **Head** of **Standardized Product Delivery**, in **Cambridge**, leading a team and a transformation project that has reduced delivery time and effort by more than 75%. In addition, as **Head** of **Delivery**, **U.S.** headquarters, he has managed all of the company's **North American** delivery functions, significantly improving operational efficiency and strengthening **customer** relationships.

Additionally, Doctor Tom Flowerdew has demonstrated his ability to build and lead high-performing teams throughout his career, most notably in his role as **Data Scientist**, both in **Atlanta**, where he has recruited and managed a group of experts in the field, and in **Cambridge**. In this way, his focus on innovation and **problem solving** has left an indelible mark on the organizations where he has worked, establishing himself as an **influential leader** in the field of **data science**.

Dr. Flowerdew, Tom

- Vice President of Data Science at MasterCard, London, United Kingdom
- Director of Data Science, Cyber Intelligence Solutions, MasterCard, London
- Head of Standardized Product Delivery at Featurespace, Cambridge
- Delivery Manager for United States, at Featurespace, Cambridge
- Data Scientist at Featurespace, Atlanta, Georgia, United States
- Data Scientist at Featurespace, Cambridge
- Research Fellow in Statistics and Operations Research at the University of Lancaster
- Ph.D. in Operations Research from Lancaster University
- B.S. in Systems Engineering from BAE Systems
- B.Sc. in Mathematics from the University of York

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

Management

D. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO en Corporate Technologies in Corporate Technologies
- CTO in AI Shephers GmbH
- Doctorate in Psychology from the University of Castilla La Mancha
- PhD in Economics, Business and Finance from the Camilo José Cela University. Outstanding Award in her PhD
- Master's Degree in Advanced Information Technologies from the University of Castilla la Mancha
- Master MBA+E (Master's Degree in Business Administration and Organisational Engineering) from the University of Castilla la Mancha
- Associate lecturer, teaching undergraduate and master's degrees in Computer Engineering at the University of Castilla la Mancha
- Professor of the Master in Big Data and Data Science at the International University of Valencia
- Lecturer of the Master's Degree in Industry 4.0 and the Master's Degree in Industrial Design and Product Development
- Member of the SMILe Research Group of the University of Castilla La Mancha.

Professors

Ms. Fernández Meléndez, Galina

- Data Analyst in ADN Mobile Solution
- ETL processes, data mining, data analysis and visualisation, establishment of KPI's, Dashboard design and implementation, management control. ADN Mobile Solution-Gijón-Spain R development, SQL management, among others
- Pattern determination, predictive modelling, machine learning
- Bachelor's degree in Business Administration. Bicentenaria de Aragua-Caracas University
- Diploma in Planning and Public Finance Venezuelan School of Planning, School of Finance
- Professional Master's Degree in Data Analysis and Business Intelligence. University of Oviedo
- MBA in Business Administration and Management (Escuela De Negocios Europea De Barcelona)
- Master in Big Data and Business Intelligence (Escuela de Negocios Europea de Barcelona)

Mr. Peris Morillo, Luis Javier

- Technical Lead in Capitole Consulting. He leads a team at Inditex in the logistics unit of its open platform
- Senior Technical Lead and Delivery Lead Support at HCL
- Agile Coach and Director of Operations at Mirai Advisory
- Member of the Steering Committee as Chief Operating Officer
- Developer, Team Lead, Scrum Master, Agile Coach, Product Manager in DocPath
- Higher Engineering in Computer Science by the ESI of Ciudad Real (UCLM)
- Postgraduate in Project Management by CEOE - Confederación Española de Organizaciones Empresariales (Spanish Confederation of Business Organisations)
- 50+ MOOCs taken, taught by renowned universities such as Stanford University, Michigan University, Yonsei University, Polytechnic University of Madrid, etc
- Several certifications, some of the most notable or recent ones are Azure Fundamentals

Mr. Tato Sánchez, Rafael

- Project Management INDRA SISTEMAS S.A.
- Technical Director INDRA SISTEMAS S.A.
- Systems Engineer ENA TRÁFICO S.A.U.
- IFCD048PO. Software Project Management and Development Methodology with SCRUM
- Coursera: Machine Learning
- Udemy: Deep Learning A-Z. Hands-on Artificial Neural Networks
- Coursera: IBM: Fundamentals of Scalable Data Science
- Coursera: IBM: Applied AI with Deep Learning
- Coursera: IBM: Advance Machine Learning and Signal Processing
- Degree in Industrial Electronics and Automation Engineering from the European University of Madrid
- Master's Degree in Industrial Engineering from the European University of Madrid
- Master's Degree in Industry 4.0 by the International University of La Rioja (UNIR)
- Professional certification. SSCE0110. Teaching for vocational training for employment

Impact on Your Career

Carrying out this program involves a great economic, professional and, of course, personal investment, of which we are aware. The ultimate goal of carrying out this great effort should be to achieve professional growth in the students' field of interest.

This is your opportunity to generate a positive change in your professional career. Discover a new horizon with this Postgraduate Diploma in Information Use in Data Science"

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

TECH's Postgraduate Diploma in Information Use in Data Science is an intensive program that helps students prepare to meet the business challenges related to data analytics. The main objective is to promote personal and professional growth. Helping students achieve success.

If you want to improve yourself, make a positive change professionally and network with the best, this is the place for you.

If you want to make a positive change in your profession, the Postgraduate Diploma in Information Use in Data Science will help you achieve it.
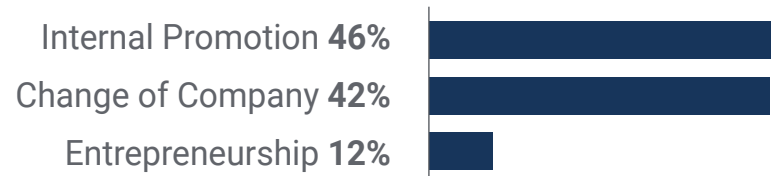
Invest in yourself and learn with us. You will see the improvement you are looking for on the first day of class.

When the change occurs

During the program	During the first year	After 2 years
12%	**67%**	**21%**

Type of change

Internal Promotion **46%**

Change of Company **42%**

Entrepreneurship **12%**

Salary increase

This program represents a salary increase of more than **25.33%** for our students.

| Salary before **$22,900** | A salary increase of **25.33%** | Salary after **$28,700** |

Benefits for Your Company

The Postgraduate Diploma in Information Use in Data Science contributes to elevate the organization's talent to its maximum potential by preparing high-level leaders. Participating in this Postgraduate Diploma is a unique opportunity to access a powerful network of contacts where you can find future professional partners, clients, or suppliers.

Examine tools for data management using programming languages and give your business a boost"

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

01

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.

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

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

11
Certificate

The Postgraduate Diploma in Information Use in Data Science guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.

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

This program will allow you to obtain your **Postgraduate Diploma in Information Use in Data Science** 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.
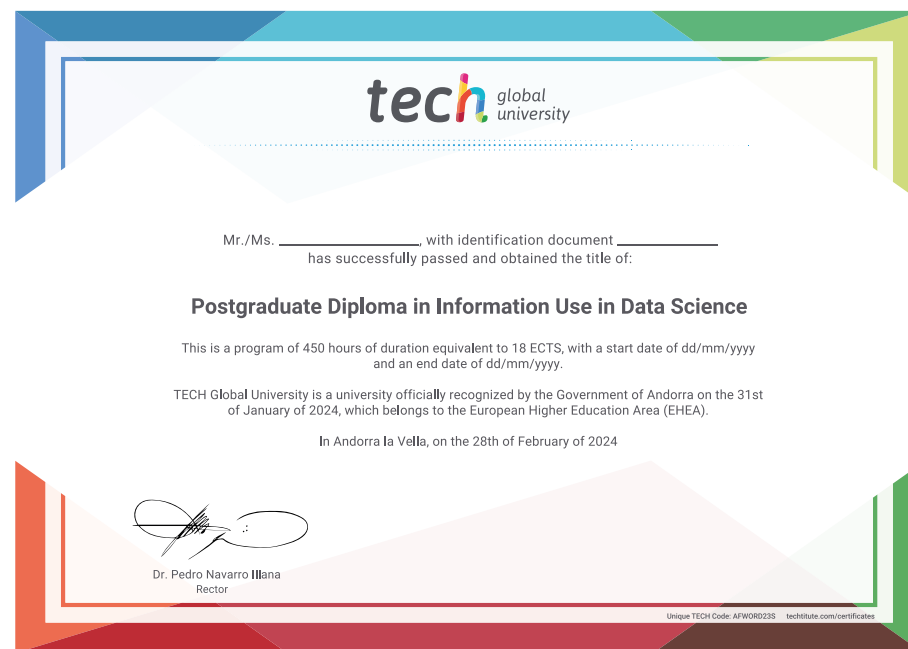
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Information Use in Data Science**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**

tech global university

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

Postgraduate Diploma in Information Use in Data Science

This is a program of 450 hours of duration equivalent to 18 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

Dr. Pedro Navarro Illana
Rector

Unique TECH Code: AFWORD23S   techtitute.com/certificates

*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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Postgraduate Diploma
Information Use
in Data Science

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

Postgraduate Diploma
Information Use in Data Science

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