Postgraduate Certificate
User Interface Programming and Design

tech global university

Postgraduate Certificate
User Interface
Programming and Design

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

Website: **www.techtitute.com/us/school-of-business/postgraduate-certificate/user-interface-programming-design**

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01
Welcome

Despite the different actions to prevent a system being compromised, it is essential to establish a security incident response process, since, as students will analyze, there is no such thing as a 100% secure environment. This intensive program addresses the most relevant aspects of web security. It analyzes the most detected and exploited web vulnerabilities at a global level as well as their prevention, and it establishes the guidelines to perform web audits to detect such risks and vulnerabilities. A unique opportunity for computer engineers to specialize in a booming sector with the help of extensively experienced professionals in the field.

Postgraduate Certificate in User Interface Programming and Design
TECH Global University

Learn to create attractive, usable and accessible digital environments to offer satisfactory user experience"

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 centre for intensive managerial skills training.

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 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:

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 methodology (the most internationally recognized postgraduate learning methodology) with Harvard Business School case studies. A complex balance of traditional and state-of-the-art methods, within the most demanding academic framework.

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.

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 Harvard Business School case studies"

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.

tech

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 Global University community.

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

Objectives

With this high-level training, professionals will find a unique opportunity to improve in a field of great importance, since they will learn how to develop a website correctly. In this way, they will become professional experts in different branches, so they will be able to control all areas of the company.

"

This Postgraduate Certificate provides an added value to the previous studies of any professional who wants a quality, specialized training in website design"

**TECH makes the goals of their students their own goals too.
We work together to help you achieve them.**

The **Postgraduate Certificate in User Interface Programming and Design** trains students to:

01 Analyze the importance of user experience as an area that successfully encompasses technology, design and interaction

02 Implement user experience design phases

03 Apply the main research tools, methods and techniques to design user-centered digital experiences
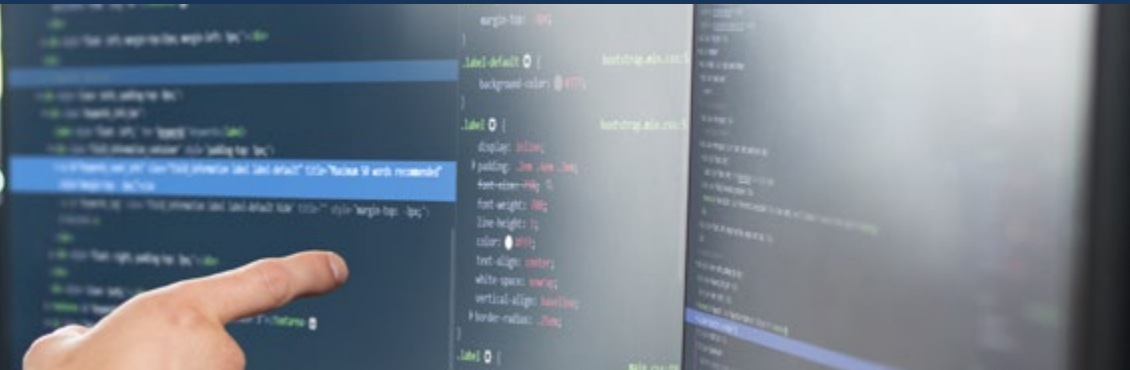
04 Create attractive, usable and accessible digital environments to offer satisfactory user experience

05 Detect user needs and behavioral patterns on the web

06 Interpret analytical data to make business decisions

08 Identify and implement usability principles to design effective and efficient applications

09 Consider potential user disabilities to provide an accessible environment

07 Apply different user-centric marketing methodologies and tools

10 Develop the different theories, principles and types of web design

11 Detail the different prototyping methods

12 Anticipate interface errors and learn how to react when they occur

13 Organize and prioritize information on the web

14 Offer an intuitive browsing experience to users

15 Gain a vision of UX Writing beyond writing

16 Establish the relationship between user experience and organic positioning (SEO)

05
Structure and Content

TECH has designed this high-level training to fulfill the specialization needs of business professionals who wish to expand their knowledge toward website management, a booming field that demands qualified professionals. Thus, this Postgraduate Certificate will allow them to acquire specific knowledge that they can immediately apply to their work practice. And, to do so, they will use a totally online methodology so they can balance their studies with the rest of their daily obligations.

"All the subjects and areas of knowledge have been compiled in a complete and absolutely up-to-date syllabus, in order to bring the student to the highest theoretical and practical level"

Syllabus

The Postgraduate Certificate in User Interface Programming and Design at TECH Global University is an intensive program that prepares students to face challenges and business decisions on a national and international level. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Throughout 180 hours of study, students will study a multitude of practical cases through individual work, which will allow them to acquire the necessary skills to successfully develop in their daily practice. It is, therefore, an authentic immersion in real business situations.

This program deals with the different areas of a company in depth, and it is designed for managers to understand User Interface Programming and Design from a strategic, international and innovative perspective.

A plan designed for students, focused on their professional development, which prepares them to achieve excellence in the field of information security 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 teaching staff, which will provide you with the skills to creatively and efficiently resolve critical situations.

The program is carried out in six weeks and is divided into one module:

| Module 1 | User Interface Design and Programming |

Where, When and How is it Taught?

TECH offers its students the opportunity to take this program completely online. Throughout the six weeks of training, they will be able to access all the program contents at any time, allowing them to self-manage their own study time.

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

Module 1. User Interface Design and Programming

1.1. User Experience
1.1.1. User Experience (UX)
1.1.2. Interface Design (UI)
1.1.3. Interaction Design (IxD)
1.1.4. Context and New Paradigms

1.2. User Interface Design
1.2.1. Design and UX
1.2.2. Web Design Psychology
1.2.3. Design Thinking
1.2.4. Types of Web Design
1.2.5. Design System & Atomic Design

1.3. UX Research
1.3.1. UX Research
1.3.2. Importance and Process
1.3.3. Research and Analysis
1.3.4. Heuristic Evaluation
1.3.5. Eye Tracking
1.3.6. Test A/B
1.3.7. Crazy Egg
1.3.8. Card Sorting
1.3.9. Customer Journey
1.3.10. Other techniques

1.4. UX Writing
1.4.1. UX Writing
1.4.2. UX Writing vs. Copyrighting
1.4.3. Uses and Benefits
1.4.4. Microcopy
1.4.5. Web Structure

1.5. Interaction Design and Web Prototyping
1.5.1. Prototyping Phase
1.5.2. Methods
1.5.3. Browsing Flows
1.5.4. Interaction
1.5.5. Managing Online Tools

1.6. Usability
1.6.1. Usability Impact on User Experience
1.6.2. Metrics
1.6.3. Tests
1.6.4. Assessment Tools

1.7. Accessibility
1.7.1. Web Accessibility
1.7.2. Beneficiaries
1.7.3. Disabilities
1.7.4. Accessibility Guidelines
1.7.5. Validation Tools and Techniques

1.8. Information Architectures
1.8.1. Organization Systems
1.8.2. Labeling Systems
1.8.3. Browsing Systems
1.8.4. Search Systems

1.9. SXO: UX y SEO
1.9.1. Similarities between UX and SEO
1.9.2. SEO Factors
1.9.3. Impact and Benefits of Optimizing UX for SEO
1.9.4. UX Advice to Improve SEO

1.10. Style Guides
1.10.1. Objectives
1.10.2. Context
1.10.3. Color Palettes
1.10.4. Typography
1.10.5. Iconography
1.10.6. Components
1.10.7. Layout
1.10.8. Consistency and Identity
1.10.9. Utility Extension
1.10.10. Examples

This program will open doors to a new professional world"

06
Methodology

This training program offers 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"

At TECH Business School we use the Harvard case method

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

" *At TECH, you will experience a way of learning that is shaking the foundations of traditional universities around the world"*

We are the first online university to combine Harvard Business School case studies with a 100% online learning system based on repetition.

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 intensive program from TECH Global University School of Business prepares students to face all the challenges in this area, both nationally and internationally. We are committed to promoting personal and professional growth, the best way to strive for success, that is why TECH uses Harvard case studies, with which we have a strategic agreement that allows us to provide our students with material from the best university the world.

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

Our university is the first in the world to combine Harvard University case studies with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance Harvard case studies 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%
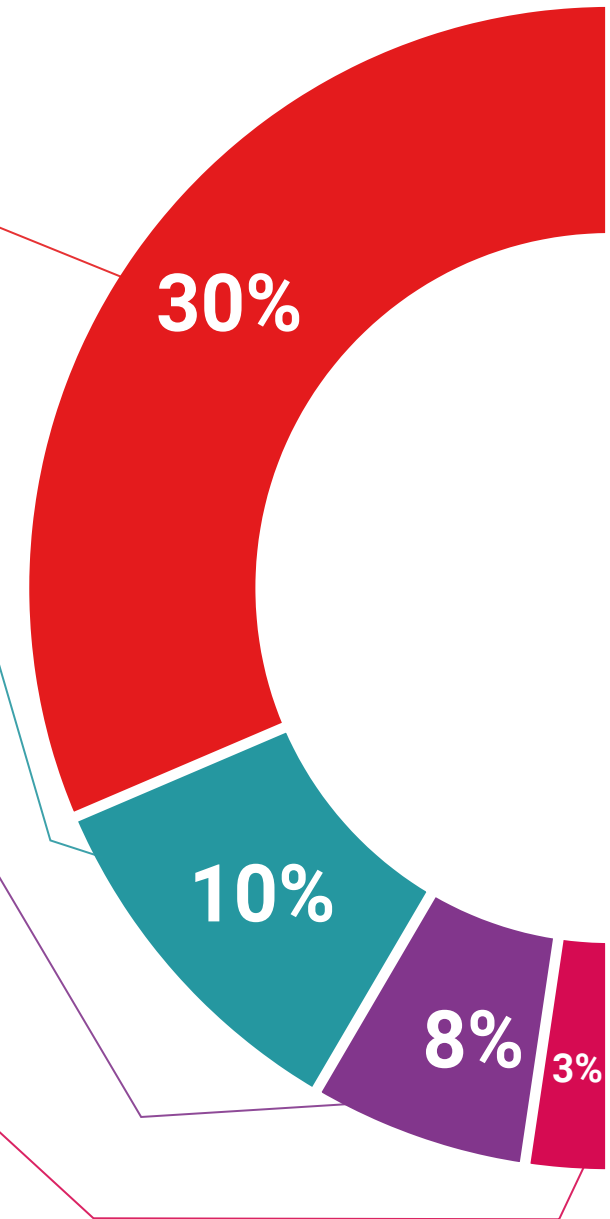
Case Studies

They will complete a selection of the best business cases used at Harvard Business School. Cases that are presented, analyzed, and supervised by the best senior management specialists in Latin America.

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 multimedia content presentation training Exclusive system 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 your goals.

Our Students' Profiles

The Postgraduate Certificate in User Interface Programming and Design is a program aimed at professionals with experience, but who believe in higher specialization as a way of improving on a personal and professional level. A unique opportunity to stand out in a sector with a promising future.
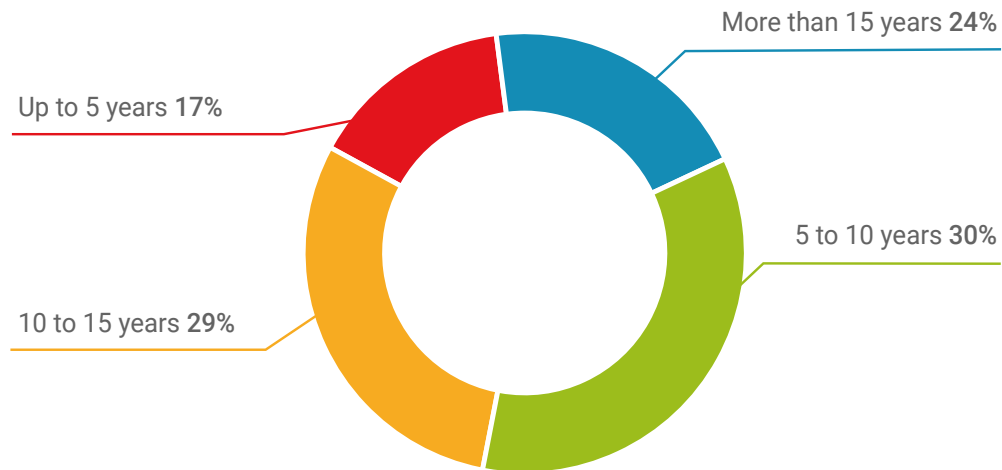
Enroll now for the most innovative teaching resources and the most up-to-date content on the market, taught by a prestigious teaching staff"

Average Age

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

Years of Experience

More than 15 years **24%**

Up to 5 years **17%**

5 to 10 years **30%**

10 to 15 years **29%**

Training

Economics and Business **18%**

MBA **28%**

Engineering and Computing **43%**

Social Sciences **11%**

Academic Profile

Corporate Management **26%**

Project Manager **14%**

Entrepreneurs **22%**

Computer Specialists **38%**
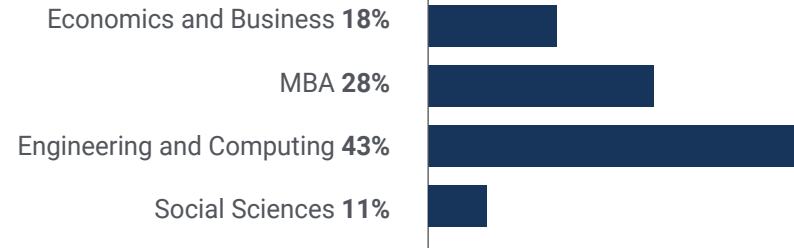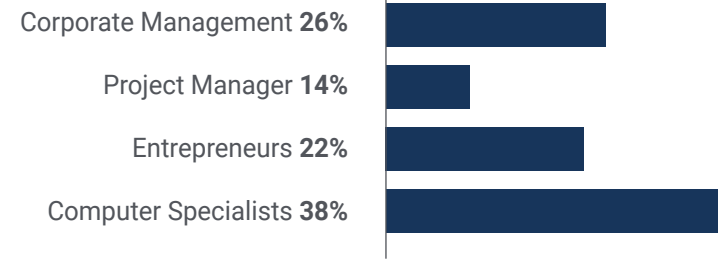
Geographical Distribution

Country	%
USA	**9%**
Spain	**38%**
Mexico	**21%**
Colombia	**7%**
Chile	**5%**
Argentina	**12%**
Peru	**2%**
Other	**6 %**
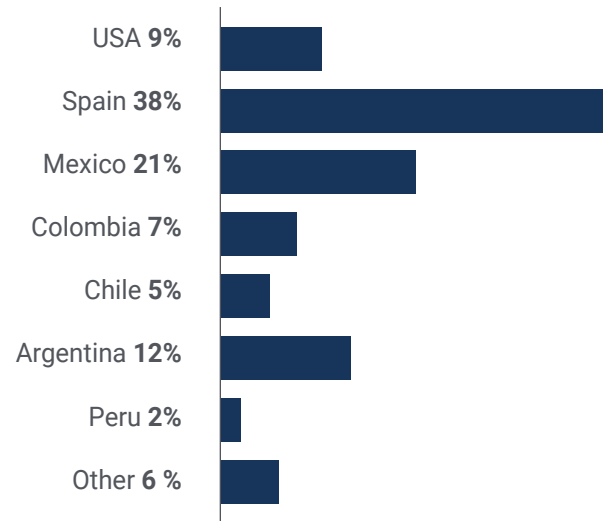
Pablo Jiménez

Manager at a multinational company

"Thanks to this training, I've been able to apply the latest and newest techniques and tools for User Interface Design and Programming in my daily professional practice. I have to highlight the teaching staff, who obviously have experience in the field and who solved all my doubts, guiding me throughout the program"

08
Course Management

The specialization our professors have in this field means they have the necessary qualifications to offer students a complete and high-quality study on subjects that will be useful in their daily work in the business environment. Undoubtedly, people who believe in higher education as a method to advance in their profession and improve the competitiveness of their business.

Renowned professionals will be your tutors on a program that stands out for the quality of its contents and its innovative educational methodology"

Management

Mr. Gris Ramos, Alejandro

- Director of Persatrace, web development and digital marketing agency
- Director of Club de Talentos
- Computer Engineer UNED
- Master's Degree in Digital Teaching and Learning Tech Education
- Master's Degree in High Abilities and Inclusive Education
- Business Development Director at Alenda Golf
- Director of Web Applications Engineering Department at Brilogic
- Web programmer at Grupo Ibergest
- Software/web programmer at Reebok Spain

Professors

Mr. Méndez Martínez, Brandon

- Designer and Web Development at the Service of Marketing
- TLH and PLN researcher in Language and Computer Systems faculties
- Master's Degree in Software Engineering from the University of Alicante
- Master's Degree in Multimedia Engineering from the University of Alicante
- Web Programmer at the University of Alicante

Impact on Your Career

This high-level training will be an added value to business professionals' qualifications, by offering all the knowledge that, although seemingly totally removed from their daily work, can be of great use in controlling business processes. For this reason, higher specialization in this field proves essential, both at a personal and professional level for students, but also for the companies where they work.

"

A program of high academic standing to launch your career to success"

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

The Postgraduate Certificate in User Interface Programming and Design at TECH Global University is an intensive and highly valuable program aimed at improving students' professional skills in an area of extensive competition. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

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

Give your career the necessary boost to position yourself as an expert in this field.

Comprehensive yet focused, this program will provide you with the specific knowledge IT professionals need to compete among the best in the sector.

When the change occurs

During the program	During the first year	After 2 years
35%	**30%**	**35%**

Type of change

Internal Promotion **35%**

Change of Company **29%**

Entrepreneurship **36%**
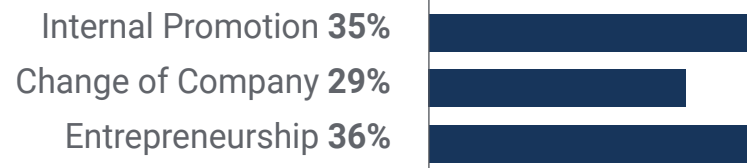
Salary increase

This program represents a salary increase of more than **25%** for our students.

Salary before	A salary increase of	Salary after
$57,900	**25.22%**	**$72,500**

10

Benefits for Your Company

With this program, business professionals will be able to add quality to their company by having the necessary skills to control the processes involved in User Interface Programming and Design. A program that adapts to students so they acquire the necessary tools that, later on, they will be able to apply in their daily practice, achieving great benefits for their company.

All the subjects and areas of knowledge have been compiled in a complete and absolutely up-to-date syllabus, in order to bring the student to the highest theoretical and practical level"

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 executive and opens new avenues for professional growth within the company.

03

Building agents of change

The professional 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.

tech

05

Project Development

Managers will be able to work on a real project or develop new projects in the R&D or Business Development area of their 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 User Interface Programming and Design guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Global University.

Successfully complete this training and receive your university degree without travel or laborious paperwork"

This program will allow you to obtain your **Postgraduate Certificate in User Interface Programming and Design** 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 Certificate in User Interface Programming and Design**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**

tech global university

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

Postgraduate Certificate in User Interface Programming and Design

This is a program of 180 hours of duration equivalent to 6 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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