

# Postgraduate Diploma

## Additive Manufacturing Processes





## Postgraduate Diploma Additive Manufacturing Processes

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

Acceso web: [www.techtitude.com/us/engineering/postgraduate-diploma/postgraduate-diploma-additive-manufacturing-processes](http://www.techtitude.com/us/engineering/postgraduate-diploma/postgraduate-diploma-additive-manufacturing-processes)

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01

# Introduction to the Program

Additive Manufacturing has revolutionized traditional production methods by incorporating processes capable of building objects layer by layer, directly from digital models. This technology allows for unprecedented geometric freedom. However, precise control of technical parameters in each process is essential to ensure the quality, precision, and functionality of the parts. De ahí la importancia de que los ingenieros. Hence the importance of engineers having a thorough understanding of the different processes involved in Additive Manufacturing, as well as their critical variables. To support them in this task, TECH has created a cutting-edge university program focused on Additive Manufacturing Processes. What's more, it is delivered in a convenient, completely online format.



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*Thanks to this 100% online program,  
you will master the main 3D Printing  
technologies and their applications  
in industrial contexts”*



In the context of Industry 4.0, Additive Manufacturing is positioned as a key tool for the digitization and flexibility of production processes. Innovations in materials, automation, and connectivity have expanded the capabilities of additive technologies, driving new ways of designing, manufacturing, and distributing products. In this sense, understanding the processes that underpin these technologies is essential to maximize their potential.

Within this framework, TECH has developed an innovative program in Additive Manufacturing Processes. Designed by renowned specialists in this field, the academic syllabus will delve into aspects ranging from the origins and evolution of Additive Manufacturing to the practical application of technologies such as FDM in industrial environments. CAD modeling tools, material selection, types of 3D printers, and modern post-processing methods will also be covered. As a result, graduates will gain advanced skills to design, implement, and optimize 3D printing projects, leading innovative and sustainable processes within the new production paradigm demanded by Industry 4.0.

All this, in addition, complemented by quality teaching resources based on multimedia pills, reflective readings and case studies that will be accessible 24 hours a day, from any digital device with an Internet connection (such as a cell phone, *tablet* or computer). On the other hand, TECH uses its revolutionary Relearning system, which ensures that professionals consolidate key concepts from the syllabus in a progressive and natural way. This means that students do not have to spend long hours studying or resort to traditional techniques such as memorization.

This **Postgraduate Diploma in Additive Manufacturing Processes** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Additive Manufacturing Processes
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies in engineering practice
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*You will integrate Additive Manufacturing processes in Industry 4.0 environments with a sustainable and innovative approach"*

“

*A university program based on the cutting-edge Relearning system promoted by TECH, which will help you quickly and flexibly assimilate complex concepts”*

The teaching staff includes professionals from the field of Additive Manufacturing Processes, who bring their work experience to this program, as well as renowned specialists from leading companies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive learning experience designed to prepare for real-life situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

*You will gain advanced skills in the implementation of post-processing, finishing, and technical validation processes for products.*

*You will delve into the fundamental principles that govern Additive Manufacturing Processes in different industrial environments.*



02

# Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.





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*Study at the world's largest online university  
and guarantee your professional success.  
The future starts at TECH”*

**The world's best online university, according to FORBES**

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

**The best top international faculty**

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

**The world's largest online university**

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



**The most complete syllabuses on the university scene**

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

**A unique learning method**

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

#### The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

#### Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



#### Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



#### The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



# 03 Syllabus

The teaching materials that make up this university program have been developed by leading experts in Additive Manufacturing Processes. The syllabus will delve into issues ranging from the operation of different 3D printers and the use of specialized software to the optimization of production times. Thanks to this comprehensive approach, students will develop skills to select appropriate equipment, manage technical parameters, apply hybrid solutions, and lead efficient projects.





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*You will address the most sophisticated methodologies for assessing costs, production times, and material consumption”*

## Module 1. Additive Manufacturing

- 1.1. Additive Manufacturing, Origins and Development of Processes and Materials
  - 1.1.1. Origins of Technology
  - 1.1.2. Development of Processes and Materials
  - 1.1.3. Expansion to Different Industries
- 1.2. Evolution of Additive Manufacturing Technologies
  - 1.2.1. Recent Technological Innovations
  - 1.2.2. Comparison of the Main Technologies
  - 1.2.3. Impact of Digitalization on the Industry
- 1.3. Software Technologies Involved in Additive Manufacturing
  - 1.3.1. Principles of CAD Modeling
  - 1.3.2. Importance of the STL Format in Printing
  - 1.3.3. Function of GCODE in Print Execution
- 1.4. Advantages and Limitations of Additive Manufacturing
  - 1.4.1. Flexibility in Design and Production
  - 1.4.2. Limitations in Materials and Size
  - 1.4.3. Comparison with Traditional Manufacturing
- 1.5. Differences between Additive and Subtractive Processes. General Comparison of Costs and Production Times
  - 1.5.1. Comparison of Costs and Production Times
  - 1.5.2. Applications in Different Industries
  - 1.5.3. Environmental Impact of Both Processes
- 1.6. Impact of Additive Manufacturing on Today's Industry. Supply Chain Revolution
  - 1.6.1. Supply Chain Revolution
  - 1.6.2. Customization in Short Runs – (No Molds)
  - 1.6.3. Applications in Local Production
- 1.7. Main Applications of Additive Manufacturing – Prototype Manufacturing
  - 1.7.1. Prototype Manufacturing
  - 1.7.2. Production of Functional Parts
  - 1.7.3. Applications in Healthcare and Automotive
- 1.8. Case Studies of Additive Manufacturing
  - 1.8.1. Implementation in the Aerospace Industry (External Cases)
  - 1.8.2. Use in the Manufacture of Medical Devices
  - 1.8.3. Innovative Projects in Construcccion

- 1.9. The Democratization of Additive Manufacturing – The Maker Phenomenon
  - 1.9.1. Creation of Customized Products
  - 1.9.2. Global Access to 3D Printing Technology
  - 1.9.3. Makerspaces Movements and Their Impact
- 1.10. Future Trends in Additive Manufacturing
  - 1.10.1. Manufacturing Automation
  - 1.10.2. New Advanced Materials
  - 1.10.3. Growth of the Personal Printer Market

## Module 2. Additive Manufacturing Technologies and Processes

- 2.1. Classification of Additive Technologies
  - 2.1.1. Current Main Technologies by Parts
  - 2.1.2. Emerging Technologies in 3D Printing
  - 2.1.3. Classification by Materials Used
- 2.2. FDM – Fused Deposition Modeling – Operation and Applications
  - 2.2.1. Operation of the Extrusion Process
  - 2.2.2. Applications and Precision in Parts
  - 2.2.3. Limitations of the FDM Process
- 2.3. SLA – Stereolithography – Functioning, Characteristics, and Applications
  - 2.3.1. How It Works
  - 2.3.2. Applications and Precision in Parts
  - 2.3.3. SLA Limitations
- 2.4. SLS – Selective Laser Sintering – Operation and Applications
  - 2.4.1. How It Works
  - 2.4.2. Applications and Resolution
  - 2.4.3. SLS Limitations
- 2.5. MJF – MultiJet Fusion. Technology and Applications
  - 2.5.1. Multi-Agent Injection Technology
  - 2.5.2. Sectors Using MJF (Aerospace, Automotive)
  - 2.5.3. Comparison with Other Technologies
- 2.6. SLM – DLMS and Additive Manufacturing in Metal, Operation, Processes, and Applications
  - 2.6.1. Additive Technology for Metals
  - 2.6.2. Applications in High-Demand Industries
  - 2.6.3. Optimization of Metal Use in Manufacturing

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- 2.7. Material Jetting: Polyjet, Applications and Layer-by-Layer Material Deposition Process.  
Detailed and Multicolor Prototype Applications
    - 2.7.1. Layer-by-Layer Material Deposition Process
    - 2.7.2. Detailed and Multicolor Prototype Applications
    - 2.7.3. Limitations in Mechanical Strength
  - 2.8. Binder Jetting: Projection of Binders onto Metal Powder
    - 2.8.1. Projection of Binders onto Metal Powder
    - 2.8.2. Industrial Applications in Metal Parts
    - 2.8.3. Comparison with Laser Sintering
  - 2.9. Advantages of Additive Manufacturing over Traditional Methods
    - 2.9.1. Flexibility in Creation of Complex Geometries
    - 2.9.2. Reduction in Material Waste
    - 2.9.3. Mass Product Customization
  - 2.10. Comparison of Technologies Based on Cost, Quality, and Time
    - 2.10.1. Cost Evaluation by Technology
    - 2.10.2. Analysis of Production Times for Each Process
    - 2.10.3. Final Quality of the Parts Produced

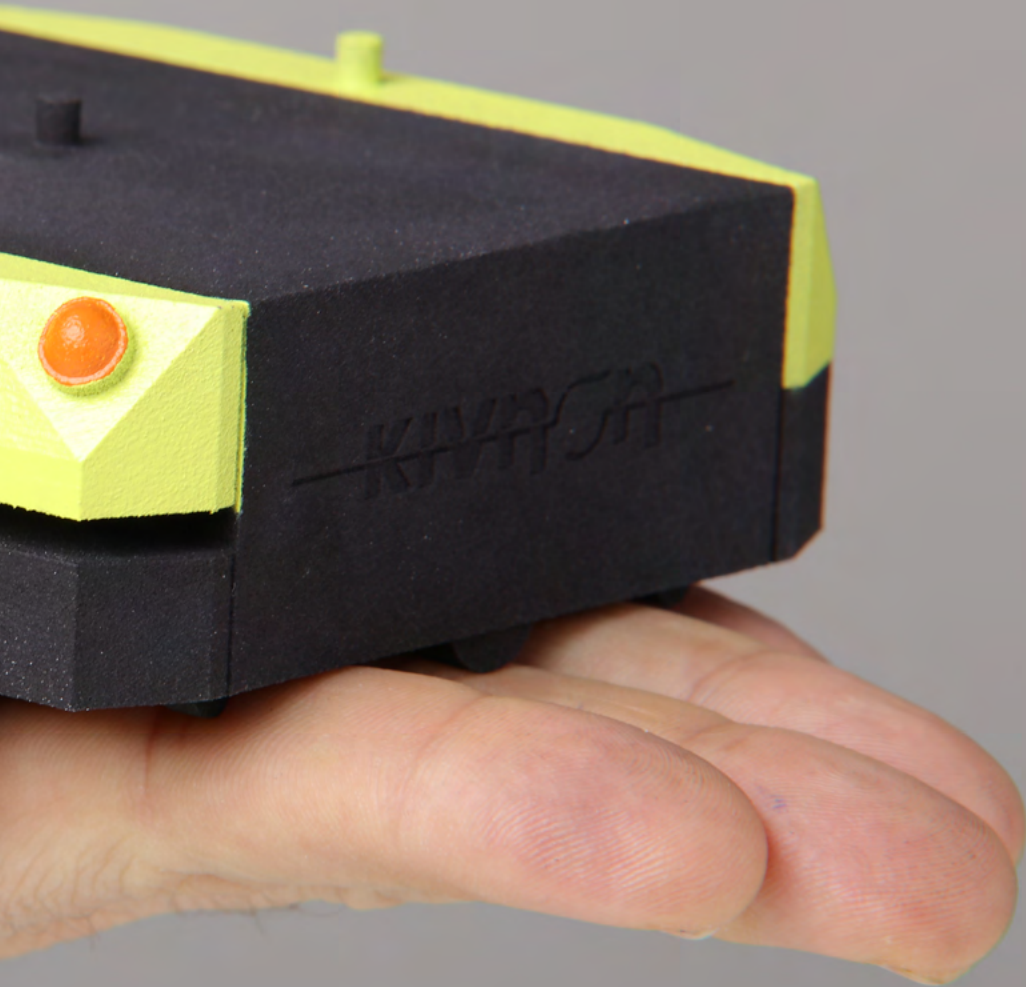
### Module 3. 3D Printers: Types and Selection

- 3.1. Types of FDM 3D Printers (Cartesian, Delta, Polar)
  - 3.1.1. Features of Cartesian Printers
  - 3.1.2. Advantages and Disadvantages of Delta Printers
  - 3.1.3. Specific Applications of Polar Printers
- 3.2. FDM Printers: Operation and Maintenance
  - 3.2.1. Basic Operation of the FDM Process
  - 3.2.2. Preventive and Corrective Maintenance
  - 3.2.3. Parameter Adjustment to Improve Quality
- 3.3. SLA and DLP Printers: Characteristics and Use
  - 3.3.1. Differences between SLA and DLP
  - 3.3.2. Industrial Uses and High-Precision Applications
  - 3.3.3. Specific Maintenance and Care
- 3.4. SLS Printers: Selection and Configuration
  - 3.4.1. Selection of SLS Printers according to Application
  - 3.4.2. Parameter Configuration for High-Strength Parts
  - 3.4.3. Maintenance Requirements for SLS Printers

- 3.5. MultiJet Fusion Printers: How to Choose the Right One
  - 3.5.1. Factors to Consider When Choosing MJF
  - 3.5.2. Comparison of MJF with Other Technologies
  - 3.5.3. Recommended Applications for MJF
- 3.6. Key Factors in Selecting a 3D Printer
  - 3.6.1. Budget and Operating Costs – Examples
  - 3.6.2. Size and Complexity of Parts. Volumes and Speeds
  - 3.6.3. Compatibility with Materials
- 3.7. Printer Comparison: Cost, Speed, and Quality
  - 3.7.1. Assessment of Acquisition and Maintenance Costs
  - 3.7.2. Comparison of Printing Speeds in Different Technologies
  - 3.7.3. Part Quality According to the Selected Printer
- 3.8. Large-Format 3D Printers: Applications and Limitations
  - 3.8.1. Advantages of Large-Format Printers for Large Parts
  - 3.8.2. Limitations in Printing Accuracy and Time
  - 3.8.3. Specific Industrial Applications
- 3.9. Hybrid Solutions: Additive and Subtractive in the Same Equipment
  - 3.9.1. Integration of 3D Printing with CNC Milling
  - 3.9.2. Advantages of Hybrid Processes for Mold Manufacturing
  - 3.9.3. Limitations of Hybrid Technology in Mass Production
- 3.10. New Trends in 3D Printers
  - 3.10.1. Recent Advances in Multimaterial Printing
  - 3.10.2. Ceramic Printing
  - 3.10.3. Networked 3D Printers and Automation







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*You will be able to identify and solve technical problems in the different phases of the additive process”*

# 04

## Teaching Objectives

Through this program, engineering professionals will acquire advanced technical skills to manage and optimize Additive Manufacturing Processes. In this regard, they will be able to configure printing parameters, select appropriate technologies and materials, and apply post-processing techniques. In addition, they will be trained to analyze the technical and economic feasibility of processes, improve production efficiency, and integrate additive solutions into innovative industrial environments aligned with Industry 4.0 principles.



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*You will apply quality control  
and processing techniques to  
additively manufactured parts,  
ensuring functional results”*

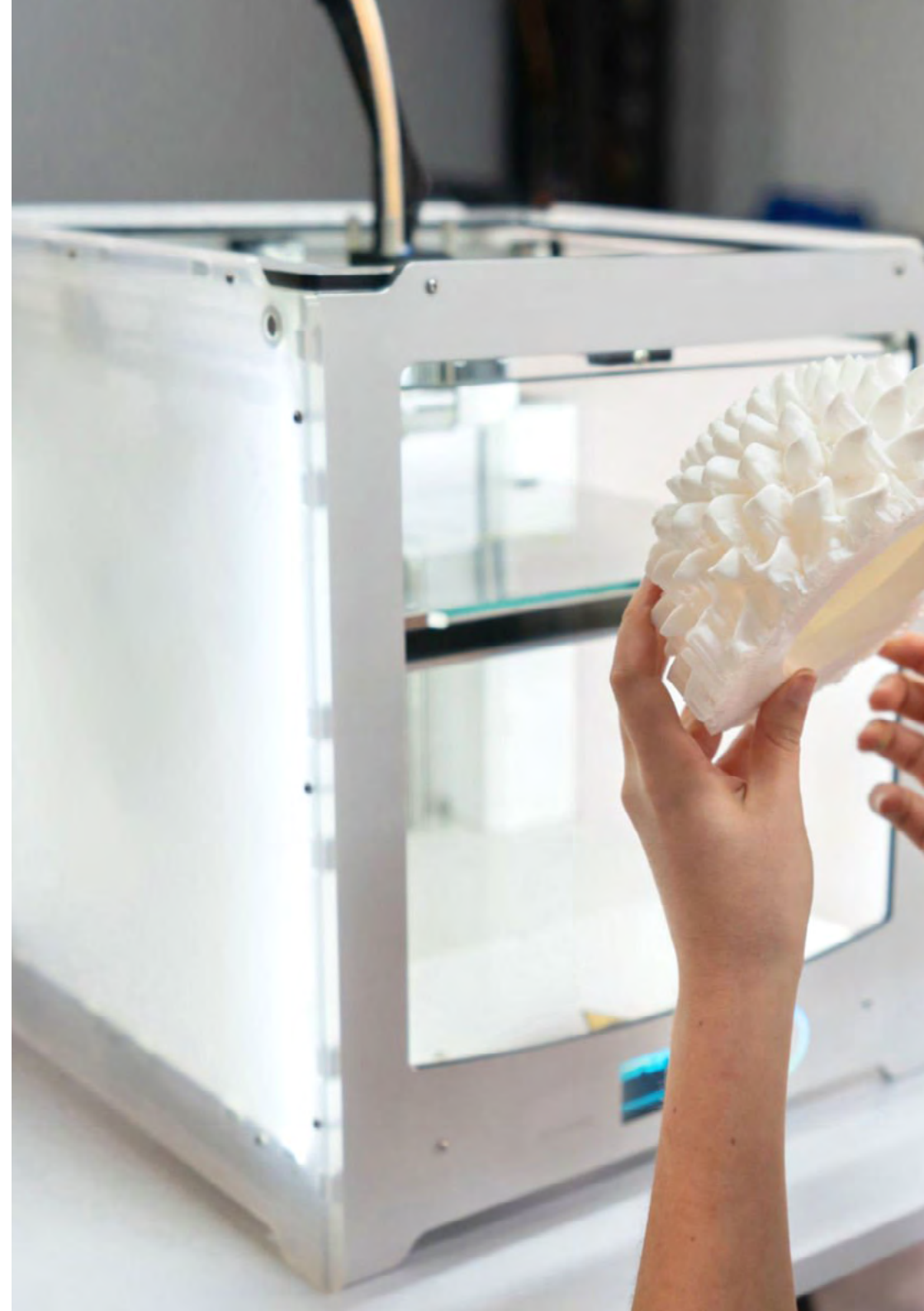




## General Objectives

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- ♦ Understand the concepts of how Additive Manufacturing works
- ♦ Delve into the technologies specifically for the materials used
- ♦ Understand how each technology works and its application, whether by the function of the part or object or by its performance
- ♦ Use 3D surface modeling software
- ♦ Delve into the different types of 3D printers, understanding their operating principles
- ♦ Learn about topological design and optimization of parts for 3D printing
- ♦ Use the most advanced post-processing techniques to optimize 3D printing
- ♦ Visualize products for specific sectors such as automotive, aerospace, and architecture
- ♦ Encourage the identification of business opportunities in the field of Additive Manufacturing
- ♦ Develop project management skills, from conceptualization and design to manufacturing and post-processing of parts







## Specific Objectives

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### Module 1. Additive Manufacturing

- ♦ Master Additive Manufacturing technologies to solve specific problems that can be solved with these technologies
- ♦ Analyze parts in 3D to select the best technology, taking into account key factors such as cost, strength, and quantities

### Module 2. Additive Manufacturing Technologies and Processes

- ♦ Differentiate technologies by their applications
- ♦ Compare production times and understand post-processing

### Module 3. 3D Printers: Types and Selection

- ♦ Develop skills to select the most suitable 3D printer according to project requirements
- ♦ Promote the exploration and adaptation of emerging technologies in 3D Printing, driving continuous improvement and efficiency in production processes



*Expanding your knowledge of Additive Manufacturing Processes will be easier with the multimedia content available on the Virtual Campus. Enroll now!"*

05

# Career Opportunities

This exclusive university program from TECH represents an excellent opportunity for engineers seeking to specialize in Additive Manufacturing Processes. Through up-to-date content and a practical approach, students will develop key skills to apply 3D technologies in industrial environments. This technical preparation will allow them to access new professional opportunities in highly innovative and constantly evolving sectors.





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*Are you looking to train as  
a Production Manager in  
Additive Manufacturing  
Environments? Achieve it  
by enrolling in this program”*



### Graduate Profile

Graduates of this TECH program will be specialists trained to manage and optimize processes in Additive Manufacturing, applying advanced technologies in industrial environments. In this regard, professionals will have the skills to analyze technical parameters, improve production efficiency, and guarantee the quality of manufactured parts. In addition, they will be able to lead innovation initiatives, integrate sustainable solutions, and adapt to the challenges of the constantly evolving Industry 4.0.

*You will ensure compliance with quality, safety, and sustainability standards in Additive Manufacturing environments.*

- ♦ **Technological Adaptation in Production Processes:** Ability to incorporate advanced Additive Manufacturing and 3D Printing technologies into production processes, increasing efficiency and quality in product development
- ♦ **Industrial Problem-Solving:** Ability to apply analytical thinking to identify and solve technical challenges, optimizing manufacturing through innovative solutions based on 3D Printing technologies
- ♦ **Commitment to Sustainability and Innovation:** Responsibility in implementing ethical and sustainable principles in the use of advanced technologies, ensuring the efficiency and economic and environmental viability of production processes
- ♦ **Interdisciplinary Collaboration:** Ability to communicate and work effectively with multidisciplinary teams, facilitating the integration of additive manufacturing into the industrial value chain and promoting knowledge transfer between technical and design areas







After completing the Postgraduate Diploma, you will be able to apply your knowledge and skills in the following positions:

- 1. Engineer specialized in Additive Manufacturing and 3D Printing:** Responsible for integrating and managing advanced 3D printing solutions in industrial environments to improve production efficiency and promote innovation in product design.
- 2. Additive Manufacturing Data Management Engineer:** Responsible for collecting, analyzing, and protecting technical data generated in 3D printing processes, ensuring optimization and traceability in manufacturing.
- 3. Engineer specializing in Rapid Prototyping with Additive Manufacturing:** Responsible for creating and validating prototypes using 3D printing technologies, enabling rapid iterations and accurate evaluations prior to large-scale production.
- 4. Additive Manufacturing Project Consultant:** Coordinator dedicated to the implementation of 3D printing solutions in the industrial field, collaborating with multidisciplinary teams to adapt technologies to the specific needs of each sector.
- 5. Internal Advisor on Additive Manufacturing Technologies:** Manager in manufacturing companies who provides training and specialized workshops on the use of 3D technologies, raising the technological competence of staff and promoting innovation.
- 6. Supervisor of Industrial Innovation Projects:** Leader of initiatives that integrate additive manufacturing solutions, optimizing production processes and resources to boost industrial competitiveness.



*You will offer consulting services to organizations seeking to integrate Additive Manufacturing technologies to improve their production systems"*

05

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.





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*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*

## The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*



### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”*



## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"*

### The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



### The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

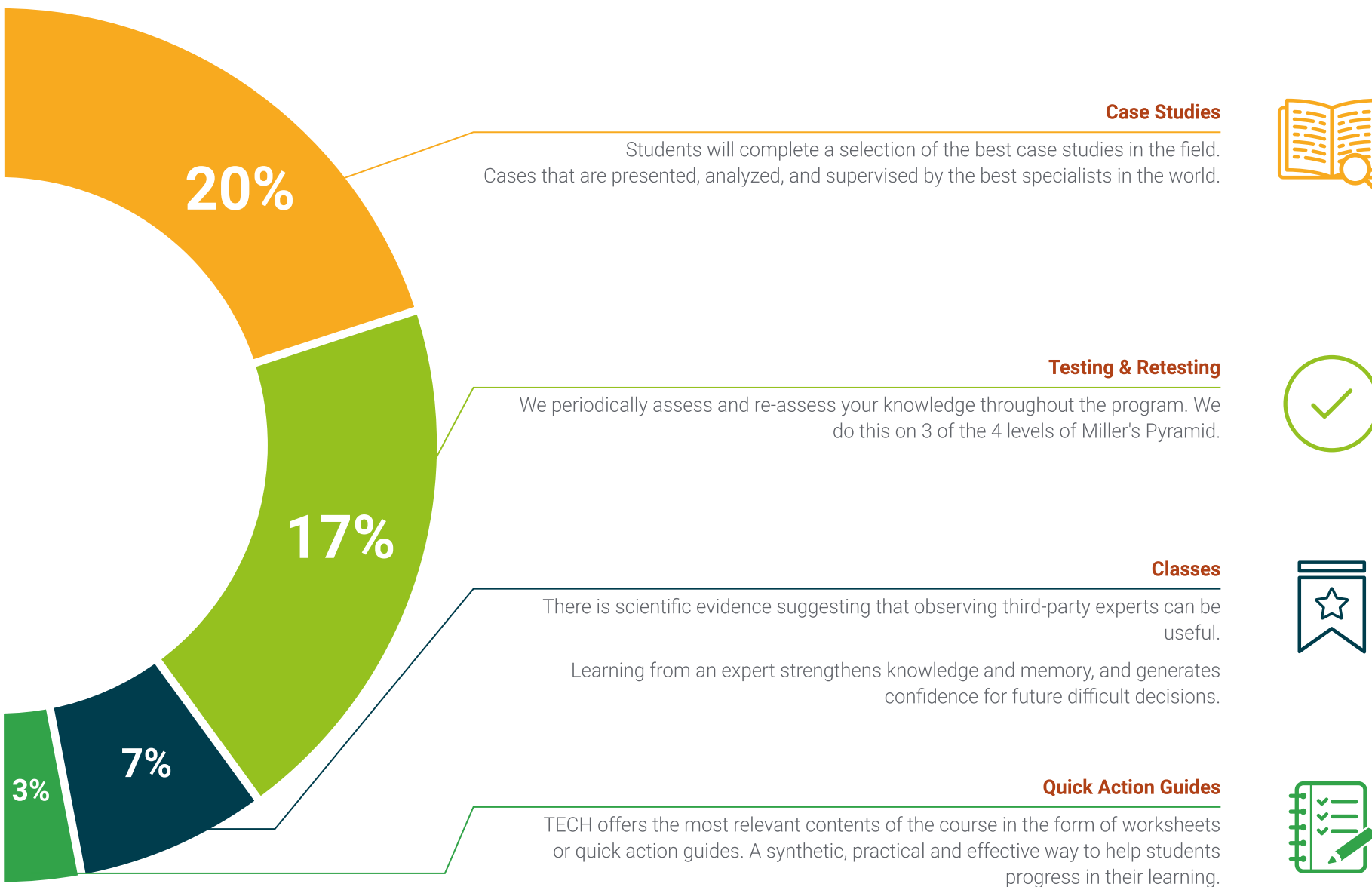


#### Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





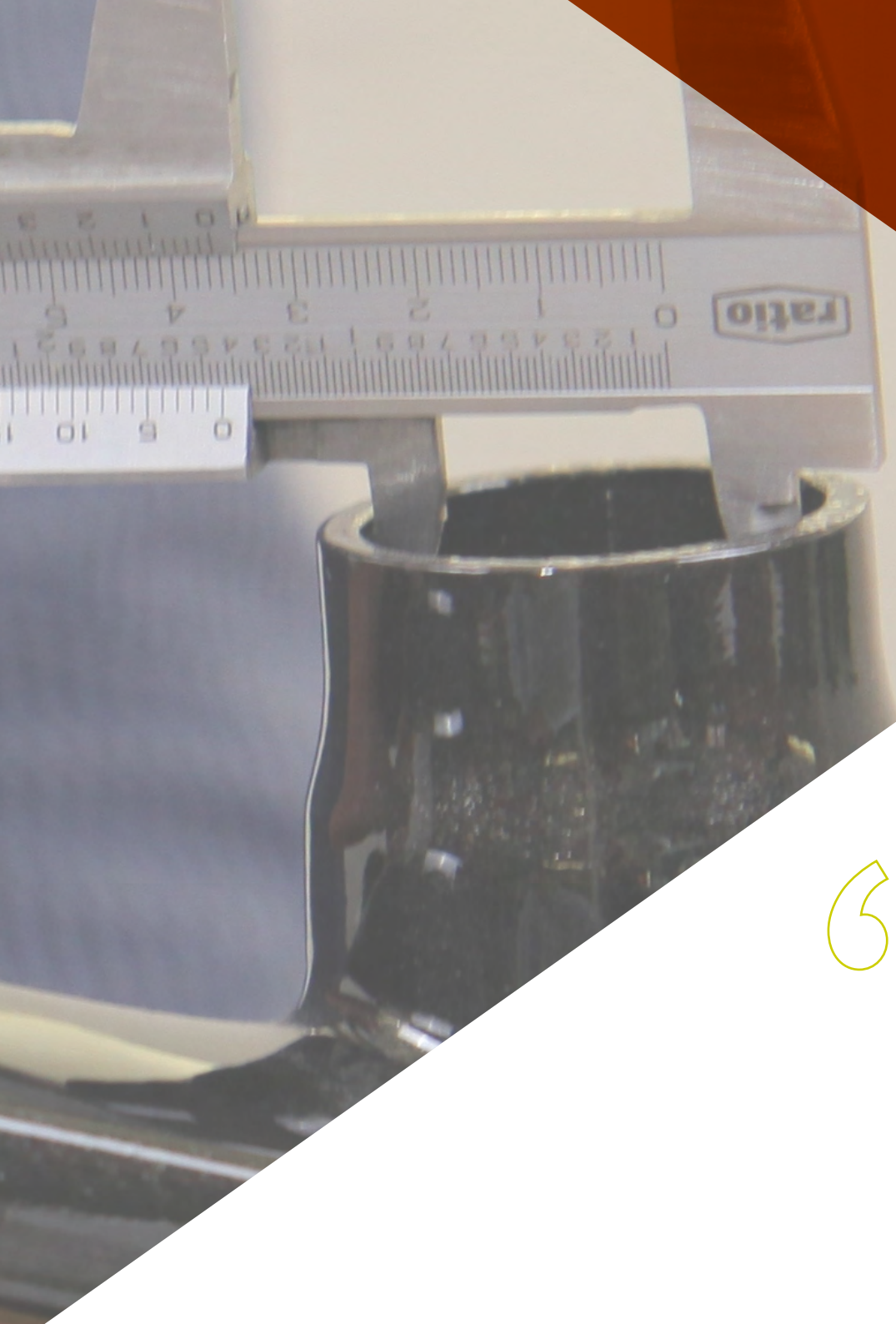


# 06

## Teaching Staff

For the design and delivery of this program, TECH has the best specialists in the field of Additive Manufacturing Processes. These professionals have developed a wide range of teaching content that stands out not only for its high quality, but also for its adaptation to the needs of today's job market. This way, students will enjoy access to an immersive experience that will allow them to significantly increase their job opportunities.





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*You will be able to consult all your questions directly with the teaching staff, who are specialized in Additive Manufacturing Processes, resulting in personalized tutoring tailored to your own needs”*

## Management



### Mr. Parera Buxeres, Antoni

- ♦ CEO and Creative Director at Innou
- ♦ Project Manager and Industrial Designer at Play
- ♦ Master's Degree in Project Management and Efficient Project Management from the Polytechnic University of Catalonia
- ♦ Bachelor of Arts with a specialization in Design from the University of Southampton

## Professors

### Mr. Bafaluy Ojea, Sergi

- ♦ Senior Researcher in Additive Manufacturing and 3D Printing in Digital Industry
- ♦ Process Engineer at Gestamp Hardtech AB
- ♦ Materials Engineer at ABB
- ♦ Industrial Doctorate in HP Printing and Computing Solutions
- ♦ Degree in Chemical and Materials Engineering from the Polytechnic University of Catalonia and the European School of Engineers

### Mr. Tutó Cabedo, Xavier

- ♦ Founder of Kxdesigners
- ♦ Master's Degree in Design Research and Management from TFRAF at ISEC
- ♦ Bachelor's Degree in Design Engineering from ELISAVA University School





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

07

# Certificate

The Postgraduate Diploma in Additive Manufacturing Processes guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Diploma issued by TECH Global University.



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

This private qualification will allow you to obtain a diploma for the **Postgraduate Diploma in Additive Manufacturing Processes** endorsed by TECH Global University, the world's largest online university.

**TECH Global University**, is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Additive Manufacturing Processes**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**







## Postgraduate Diploma Additive Manufacturing Processes

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

# Postgraduate Diploma

## Additive Manufacturing Processes

