UNIVERSITY MASTER DEGREE DIGITAL MANUFACTURING
WORK AND STUDY FOR THE FUTURE

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www.imh.eus/master
A profile that faces the challenges posed by different technologies of the Industry 4.0 in a global perspective.

A leading reference in changing business models, open to all kind of the latest scenarios.

**OBJECTIVES**

You will receive specific training about the new industrial reality geared towards digitalisation.

You will receive training in the fields of combining IT with technical skills related to Advanced Manufacturing Engineering and the basics of Industrial Management.

You’ll be trained to be a specialist to manage the Smart Factory with ease.

**DUAL MODEL**

This Master's degree is given in **Dual format**, which means that the three main actors (university, company, student) **share and pursue a common goal from the very start**.

Apart from the university, the company is a learning space to acquire and further develop skills, to fit seamlessly in the learning process.

The training programme includes teaching subjects following the **Project Based Learning methodology**.

The programme is designed in close collaboration with companies from our environment, which participate in both the definition of contents and their delivery.

**WORK CONTRACT**

The Dual model comprises of a part-time work contract of 50% (minimum) with the company where the university master's degree is taken.
PROFESSIONAL OPPORTUNITIES

- Innovation Consultant
- Consulting specialist in Digital Manufacturing
- Head of Projects, Specialist in new organizational models
- Head of projects, Researcher, Specialist in production processes
- Head of projects, Researcher, Specialist in Industrial Technologies
- Industrial Management in 4.0
- Direction of technological projects
- General, technical, strategic or technological management of organizations
- Planning, production and digital manufacturing management

ACCESS PROFILE

Aimed at graduates in engineering and other related fields who aim for a professional career in providing solutions to the challenges posed by industry 4.0 technologies from a global perspective.

This master’s degree is also ideal for active professionals who want to further their careers as leaders in this new industrial era.

- Engineering Degree in Innovation of Processes and Products
- Engineering Degree in Renewable Energy
- Degree in Electrical Engineering
- Degree in Electronic Engineering
- Degree in Industrial Electronic and Automation Engineering
- Degree in Computer Engineering
- Degree in Telecommunication Technology Engineering
- Degree in Industrial Organisation Engineering
- Degree in Industrial Technology Engineering
- Degree in Mechanical Engineering
- Degree in Computer Engineering in Management and Information Systems
- Degree in Mathematics
- Degree in Physics
- Other degrees or equivalent qualifications to the above

BASIC INFORMATION

Type of teaching: Dual, includes a part-time contract of 50% (minimum)
Teaching language: Spanish and English
Price: 1st year (60 ECTS): 8040 € / 2nd year (30 ECTS): 4020 €
Schedule: September 2018 - July 2020. Academic classroom training one or two weeks a month, on Wednesdays, Thursdays and Fridays.
University hours: from 9:00 to 13:00 and from 14:00 to 18:00
Places of Delivery:
## TRAINING

**OBLIGATORY PROJECTS/RESEARCH JOBS**

<table>
<thead>
<tr>
<th>ECTS</th>
<th>YEAR</th>
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<tbody>
<tr>
<td>29</td>
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**TOTAL**

| 90  | ECTS | 2 academic years |

### SUBJECTS

<table>
<thead>
<tr>
<th>OBLIGATORY SUBJECTS (41 ECTS)</th>
<th>ECTS</th>
<th>YEAR</th>
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<tbody>
<tr>
<td>Comprehensive engineering solutions</td>
<td>5</td>
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<tr>
<td>Systemic organisational processes</td>
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<td>1.</td>
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<tr>
<td>Research methodology and project</td>
<td>7</td>
<td>1.</td>
</tr>
<tr>
<td>Leadership for new business models</td>
<td>5</td>
<td>1.</td>
</tr>
<tr>
<td>Data mining, big data and AI</td>
<td>5</td>
<td>1.</td>
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<tr>
<td>Applied industrial robotics</td>
<td>5</td>
<td>1.</td>
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<tr>
<td>Industrial technologies</td>
<td>5</td>
<td>1.</td>
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<tr>
<td>Connected industrial systems</td>
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<table>
<thead>
<tr>
<th>OPTIONAL SUBJECTS (20 ECTS)</th>
<th>ECTS</th>
<th>YEAR</th>
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<tbody>
<tr>
<td>Next generation sensors and cyber-physical systems</td>
<td>5</td>
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<tr>
<td>Industrial process automation</td>
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<td>2.</td>
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<tr>
<td>Digital factory</td>
<td>5</td>
<td>2.</td>
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<tr>
<td>Artificial vision</td>
<td>5</td>
<td>2.</td>
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<tr>
<td>Advanced visualisation</td>
<td>5</td>
<td>2.</td>
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<tr>
<td>Industry trends</td>
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<td>2.</td>
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<tr>
<td>Additive Manufacturing</td>
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<td>2.</td>
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<table>
<thead>
<tr>
<th>PLACEMENTS AND MASTER’S FINAL PROJECT (29 ECTS)</th>
<th>ECTS</th>
<th>YEAR</th>
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<tr>
<td>Curricular placement</td>
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</tr>
<tr>
<td>Master’s Final Project</td>
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### PARTICIPATING COMPANIES

- DANOBATGROUP
- ETXE-TAR
- FAGOR AUTOMATION
- GKN DRIVELINE
- IBARMIA
- IDEKO
- IMH FUNDAZIOA
- LAN-BI
- LOIRE GESTAMP
- RPK
- TECNALIA
- ULMA PACKAGING
- VICOMTECH
- RPK
- TECNALIA
- ULMA PACKAGING
- VICOMTECH

### PARTICIPATING ORGANIZATIONS

- AFM
- ASKO JURABARITZA GOBERNIK VASCO
- ELGOIBAR LEALIA AYUNTAMIENTO
- UPV
- EHU
- ADEGI
- HERAN

### CONTACT

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