TOMORROW NEEDS ENGINEERING
EEUM IN NUMBERS

- **6004** Total students
  - 539 PhD in 23 programmes

- **321** Teaching staff 100%
  - PhD holders

- **74** Non-teaching staff

- **7 out of 9** Centers assessed internationally with the three higher classifications

- **16** Patent applications per year (average)

- **1791** WoS/Scopus scientific papers

- **316** R&D projects

- **82** Concluded PhDs

- **68,4 M€** Projects’ dotation
**RANKINGS**

**Center for World University Rankings (CWUR):** 616/1000

**SCImago Institutions Rankings:** 472/5000

**THE Ranking Engineering & Technology:** 301-400

**THE Ranking 100 UNDER 50 2017:** 101-150 (5 Portuguese HEI)

**THE World University Ranking – UMinho 601-800**

**U-Multirank:** 9 features with highest classification (A category – Very Good)

**Academic Ranking of World Universities (ARWU):** 401-500

ARWU-FIELD: Top 100 - Biomedical Engineering, Civil Engineering, Food Science and Technology; Top 200 - Biotechnology; Top 300 - Mechanical Engineering (w/ Production Engineering) and Chemical Engineering; Top 400 - Computer Science and Engineering, Materials Science & Engineering.
INTERNATIONAL COOPERATION

- 200 incoming students/year
- 20 international conferences held in Braga/Guimarães per year
- > 10 international MoU/year
- Partner institutions network in around 80 countries, mainly in EU, Asia and PALOP
Industrial and Food Biotechnology and Bioengineering
Environmental Biotechnology and Bioengineering
Health Biotechnology and Bioengineering

National leader in Biotechnology and Bioengineering
Multidisciplinary center focused on research and innovation in the development of smart microsystems and biomedical systems

Microelectromechanical Systems
Computational design, modeling and simulation of medical devices
Nano / Microfabrication of medical devices
Biomaterials / components characterization
Medical instrumentation
Multifunctional and multifunctional component design
Interdisciplinary research and leading-edge knowledge in Information and Communication Technologies, Electronics, Computer Systems and Industrial and Systems Engineering
Focus on software design and development for critical systems (trustworthiness of information systems)
1st Portuguese research centre specialized in fibrous materials research

Nano and Multifunctional Materials
Sustainable and Advanced Processes and Technologies
Design and Product Engineering
New knowledge and innovative solutions for the cities of tomorrow: 
S4cities – sustainable, smart, safe and smiling cities

Ecomaterials
Sustainable Construction
Water Resources and Environment
Transport Systems and Infrastructures
Territorial Planning and Governance
Leading research centre in mechanical systems, energy and environmental technologies and functionalised materials

Power Conversion
Waste Valorization
Advanced Engineering Systems
Structure and Vehicle Engineering
Food Technology and Welfare
Fundamental contribution to the advancement of science and technology of polymers and composites, helping Portuguese industry creating added-value products.
Higher quality R&D in promoting innovation and sustainability in the construction sector (structural engineering)

Historical and Masonry Structures
Structural concrete
Steel and Mixed Construction Technologies
• Cover the majority of areas in Engineering

• Offer 1st and 2nd cycle courses, as well as 3rd cycle courses together with the Research Centres

• Support the development of research projects and knowledge transfer projects in co-operation with industry and services
EDUCATIONAL OFFER

1st Cycle (180 ECTS)
- Biomedical Engineering
- Chemical and Biological Engineering
- Civil Engineering
- Engineering and Management of Information Systems
- Engineering Physics
- Fashion Design and Marketing
- Industrial Electronics and Computers Engineering
- Industrial Engineering and Management
- Informatics Engineering
- Materials Engineering
- Mechanical Engineering
- Polymer Engineering
- Telecommunications and Informatics Engineering
- Textile Engineering

2nd Cycle (120 ECTS)

3rd Cycle (180 or 240 ECTS)
EDUCATIONAL OFFER

1st Cycle (180 ECTS)
- Engineering and Operations Management
- Bioinformatics
- Biomedical Engineering
- Biotechnology
- Building Information Modelling - BIM A+ (European Master)
- Chemical and Biological Engineering
- Civil Engineering
- Design and Marketing of Textile Products, Apparel and Accessories
- Engineering and Management of Information Systems
- Engineering and Quality Management
- Engineering of Computer Networks and Telematic Services
- Engineering Physics
- Engineering Project Management
- Fashion Design and Communication
- Food Science and Technology
- Human Engineering
- Industrial Electronics and Computers Engineering
- Industrial Engineering and Management
- Informatics Engineering
- Information Systems
- Interactive Technologies
- Materials Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Micro/Nano Technologies
- Polymer Engineering
- Product Engineering
- Structural Analysis of Monuments and Historical Construction (European Master)
- Structural Engineering
- Sustainable Built Environment
- Sustainable Construction and Rehabilitation
- Systems Engineering
- Telecommunications and Informatics Engineering
- Textile Engineering
- Urban Engineering

2nd Cycle (120 ECTS)

3rd Cycle (180 or 240 ECTS)
EDUCATIONAL OFFER

1st Cycle (180 ECTS)
- Doctoral Program in Advanced Engineering Systems for Industry
- Doctoral Program in Bioengineering
- Doctoral Program in Computer Science (MAP-i)
- Doctoral Program in Food Science and Technology and Nutrition
- Doctoral Program in Industrial and Systems Engineering
- Doctoral Program in Information Systems and Technology
- Doctoral Program in Mechanical Engineering

2nd Cycle (120 ECTS)
- Doctorate in Biomedical Engineering
- Doctorate in Chemical and Biological Engineering
- Doctorate in Civil Engineering
- Doctorate in Electronics and Computer Engineering
- Doctorate in Informatics
- Doctorate in Materials Engineering
- Doctorate in Polymers and Composites Engineering
- Doctorate in Solid Waste Management and Treatment
- Doctorate in Sustainable Built Environment
- Doctorate in Textile Engineering

3rd Cycle (180 or 240 ECTS)
Applied research and development in the fields of computer graphics, information, communication and electronic technologies, as well as to their application at national and international level.

- Computer Vision, Graphics and Interaction
- Engineering Process, Maturity & Quality for information systems and technologies
- Perception, Interaction & Usability
- Urban and Mobile Computing
Research, scientific analysis and application of real solutions in the area of waste valorisation.

- Waste characterisation
- Gas emissions
- Materials and Geotechnics
- Occupational safety
Fulfil R&DT needs of associates and clients in plastic and mould industry, based on differentiated knowledge in strategic technological domains, assisting in know-how development and turning ideas into products.

- Materials
- Processing technologies
- Product engineering
- Tests and trials
Support to the development of new technologies/products/processes.

Design and implementation of educational and training activities (classroom and e-learning), organizational development and transnational mobility of human resources.

Support to university entrepreneurship and creation of innovative companies, focusing on academic spin-offs.
KNOWLEDGE VALORISATION

33 SPIN-OFFS

- 29% Biotechnology
- 20% Information Systems
- 15% Textile
- 9% Mechanics
- 9% New Materials
- 9% Production and Systems
- 3% Industrial Electronics
- 3% Health
- 3% Education
LINK WITH INDUSTRY

Protocols of Cooperation, Dissertations and Traineeships