

# BIOMEDICAL TECHNOLOGY

Biomedical technology deals with innovation in biomedical technologies especially trends in the development of new devices or solutions that solve specific unmet needs.

➤ **ECTS credits: 1**

➤ **Dates: 19 to 23 July 2021**

Meet Our

## INSTRUCTORS



**María Jesús Ledesma Carbayo** is full professor of Electronic Engineering at the Universidad Politécnica de Madrid and scientist in the Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine where she leads several research lines as a member of the Biomedical Imaging Technologies group. She received her PhD from Universidad Politécnica de Madrid in 2003. Her research interests focus on improving healthcare delivery through advances in biomedical imaging technologies, participating in Spanish, European and internationally funded projects. She is currently leading the Madrid Hub of Catalyst Europe program. A member of professional organizations, she collaborates with different foundations and NGOs promoting biomedical technology innovation to approach global health challenges.



**Juan José Gómez Valverde** is assistant professor of electronic engineering at the Universidad Politécnica de Madrid and a researcher at the Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine. He graduated in telecommunication engineering and completed a master program on biomedical engineering at the Universidad Politécnica de Madrid (UPM). He received his PhD degree with international mention from UPM for his contribution of new image processing methods for computer-aided screening. His main research interests are related to screening for diseases, biomedical image processing, artificial intelligence, optical image analysis and telemedicine.

## LEARNING GOALS

### Learn

Key issues



Design and development of medical devices

### Understand

Importance of unmet clinical need and impactful problems



Development of innovative health technology



### Gain

Insight

Practical applications of technology in the real world

## SYLLABUS

### MODULE

01

I

Introduction to the biomedical technologies field

II

Current technologies and future trends in the biomedical imaging field

02

I

Biomedical technologies social and environmental risks. Global social impact

II

A workshop to identify and design new biomedical technology by teams

03

I

Industry Talk

II

Question and answer session

Meet Our

## INDUSTRY SPEAKER



**María García de Pablo** is Iberia Diabetes Business Director at Medtronic where she works with stakeholders to promote the adoption of diabetes products in the region. María holds an MSc in Telecommunications Engineering from the Universidad Politécnica de Madrid, an MSc in Biomedical Engineering from the University of Patras in Greece and an Executive MBA from the IE Business School. María joined Medtronic in 2002 as sales manager and product specialist in Cardiac Rhythm Disease Management and has since held different positions related to therapy development, integrated health solutions and business development within the field of medical-related solutions.