Doctorate Areas and their Programs

UNIVERSIDAD POLÍTECNICA DE MADRID
www.upm.es

HUMAN RESOURCES
21 R&D+i Centres and Institutes
Strong collaboration with industry and foreign universities
46 Doctorate programs

WHY UPM FOR DOCTORATE?
• MAIN TECHNOLOGICAL UNIVERSITY IN SPAIN
• SPECIALISED IN ENGINEERING, ARCHITECTURE, SPORTS AND FASHION
• SOURCE OF HIGH IMPACT KNOWLEDGE
M° 1 IN ATTRACTING R&D CONTRACTS WITH INDUSTRY
M° 1 IN UNIVERSITY PATENT APPLICATIONS
M° 1 IN NEW TECHNOLOGY VENTURES CREATION

RESEARCH & INNOVATION CENTRES
• Bachelor of Technology Centre (CTB)
• Doctorate for Advanced Materials and Devices for ICT (DMD&I)
• Institute for Automation and Robotics (IAR, UPM-C2RCA)
• Center for Supercomputing and Simulation (C2S)
• Center for Innovation for the Industry (CII)
• Center on Software Technologies and Multimedia Systems for Sustainability (CS2MSS)
• Information Processing and Telecommunications Center (CIFIT)
• Integra-Dodecahedron Center (CIM2D)
• Laser Centre
• Research Centre for Biotechnology and Food
• Research Centre for the Management of Agricultural and Environmental Risks (CIFAGA)
• Structural Materials Research Centre (CIMB)
• Transport Research Centre (TRAMVTI)

RESEARCH & INNOVATION CENTRES
• Institute for Automation Research "Profesor Antonio" (ICIA)
• Institute for Nuclear Physics (IPN)
• Institute for Optoelectronics Systems and Nanotechnology (ISIN)
• Institute for Solar Energy (IEE)

INNOVATION CENTRES
• Center for Support to Technological Innovation (CENTIN)
• Innovation and Technology for Development Centre (CAIT)
• Autonomous Space (UPM-Acoustic Innovation Centre on Artificial Intelligence)

TECHNOLOGICAL INNOVATION
• 539 patents registered (from 1998)
• 40 patents currently in exploitation
• 71 University-Company Chairs
• 200 spin-offs created and coached from 1998
• 250 spin-offs spin-off sales (3rd year)
• 40M€ from investors (from 2007)

DOCTORATE AREAS AND THEIR PROGRAMS
MANUFACTURING & INDUSTRY
• Aeronautical Engineering
• Automation and Robotics
• Economy and Innovation Management
• Environmental Engineering
• Environmental and Material Engineering
• Electrical and Electronic Engineering
• European Doctorate in Imaging Technologies
• Food Manufacture
• Nanomaterials Engineering
• Production Engineering and Industrial Design
• Renewable and Sustainable Sources of Energy

ICT
• Artificial Intelligence
• Biomedical Engineering
• Communication Systems and Technologies
• Computational Science and Technology for Street Crime
• Computer Systems
• Mathematical Eng. Statistics and Operational Research
• Photovoltaic, Solar Energy Systems and Services Management
• Information and Communication Technologies
• Internet Systems, Technology and Engineering

AGROFORESTRY & ENVIRONMENT
• Advanced Field Research
• Agricultural Engineering
• Botany and Diversity Resources of Plants and Animals
• Complex Systems
• Engineering and Management of Biodiversity and Environmental Technology
• Project Planning for Rural Development and Sustainable Project

CIVIL ENGINEERING
• Advanced Architectural Design
• Civil Engineering Systems
• Structural, Structural and Material Engineering
• Naval Architecture, Marine Engineering
• Civil Engineering Innovations in Building Construction
• Earth Informatics

ARCHITECTURE
• Sustainable, Nuclear and Renewable Energy
• Analysis of the Environment
• Industrial Design
• Industrial Management
• Management of Environment for Sustainable Agriculture
• Urban and Environmental Risks (CEIGRAM)
• Genomics (CBGP)
• Forest and Environmental Risks of Agricultural and Forest Resources of Plants and Animals
• Biotech and Genetic Resources of Plants and Animals

SPORTS AND FASHION
• Architecture
• Architecture for Sport
• Architecture for Fashion
• Building and Architecture Technology
• Reliability Structures
• Sustainability and Urban Regeneration

MAKING INNOVATION A REALITY

• 2,000 PhD STUDENTS
• 54 M€ in financed projects
• 16.75 M€ Regional projects
• 8.45 M€ National projects
• 17.71 M€ International projects
• 17.27 M€ Private projects and technical assistance to companies

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• 2,800 FACULTY ACADEMICS
• 670 RESEARCHERS CONTRACTED TO WORK IN R&D PROJECTS
• 450 STUDENTS GRANTED BY PROJECTS
• 1,200 ADMINISTRATION AND TECHNICAL STAFF
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DOCTORATE PROGRAMS ACCESS
http://www.upm.es/Estudiantes/Estudios_Titulaciones/Estudios_Doctorado

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