



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

VICERRECTORADO DE INVESTIGACIÓN

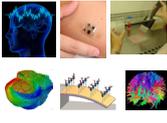
2025

Estructuras de Investigación de la UPV agrupadas por áreas

Estructuras de Investigación agrupados por áreas

En la actualidad, la UPV cuenta con más de 3.000 investigadores integrados principalmente en 45 Institutos y Centros de Investigación que actúan en las siguientes áreas de trabajo:

Agricultura y biotecnología

<p>CI2B Centro de Investigación e Innovación en Bioingeniería Center for Research and Innovation in Bioengineering</p>	 <p>Center for Research and Innovation in Bioengineering (CI2B) CI2B Website CI2B LinkedIn Director: Beatriz Trénor Gomis (btrenor@eln.upv.es)</p>    <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Biomedical Instrumentation/Sensors • Immunology/Biosensors • Biomedical Signal Processing • Modeling and Simulation of Bioelectric systems • Mechanobiology <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> • MASTER in Biomedical Engineering • PHD PROGRAM: Technologies for Health and Wellbeing 
<p>IAM Instituto Agroforestal Mediterráneo Mediterranean Agroforestry Institute</p>	 <p>Mediterranean Agroforestry Institute (IAM) https://iam.webs.upv.es/ Director: Mercedes Verdeguez Sancho (merversa@eef.upv.es) Contact: iam@upv.es</p>    <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Farming Systems Sustainable Agriculture, Agroecology, Regenerative Agriculture • R&D&I in Plant Protection and Production Integrated Pest Management, Biological and Ecological Pest Control, Agroforestry Entomology, Phytopathology, Research and Development of Bioherbicides and Biostimulants, Isolation and Identification of Semiochemicals, Citriculture, Fruit Crop Production, Horticulture • Plant Physiology Plant Adaptation to Climate Change and Biotic and Abiotic Stress, Fruit Crop Physiology • Ecology and Biodiversity Ecological Restoration and Ecosystem Services, Flora and Ecology of Plant Communities • National Reference Facilities <ul style="list-style-type: none"> ➢ National Reference Laboratory for the Identification and Diagnosis of Plant Pathogenic Fungi ➢ National Reference Laboratory for the Identification and Diagnosis of Viruses and Phytoplasmas in Non-Woody Plant Species and Plant Products 
<p>IDM Instituto Interuniversitario de Investigación de Reconocimiento Molecular y Desarrollo Tecnológico Interuniversity Research Institute for Molecular Recognition and Technological Development</p>	 <p>Interuniversity Research Institute for Molecular Recognition and Technological Development (IDM) http://www.uv.es/idm Director: Ramón Martínez Mañé (mmaez@qim.upv.es) Contact: idm@upv.es</p>    <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Nanomaterials and sensors • Biosensors and immunosensors • Agrochemistry • Controlled Drug delivery systems • Nanomedicine • Electronic development and printed sensors • Concrete research and monitoring • Energy efficiency and renewable energy • Disease mechanisms • Liquid Biopsy • Pharmacometric studies <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> • Master's Degree in Biomedical Biotechnology • Master's Degree in Mechatronics Engineering • Master's Degree in Chemical Engineering • Master's Degree in Biomedical Engineering • PhD in Chemistry • PhD in Experimental Techniques in Chemistry • PhD in Biotechnology • PhD in Electronic Engineering

VICERRECTORADO DE INVESTIGACIÓN

ICTA
Instituto Universitario de Investigación de Ciencia y Tecnología Animal
Institute of Animal Science & Technology

Institute of Animal Science & Technology (ICTA)
<https://icta.webs.upv.es>
 Director: Juan José Pascual Amorós
 Contact: jupascu@dca.upv.es

RESEARCH LINES/CAPABILITIES:

- Aquaculture and biodiversity
- Animal nutrition
- Animal genetics
- Animal production systems and technologies

FACILITIES:

- Pilot plants
- Farms
- Laboratories

MASTER-PHD PROGRAMS:

- Master in Precision Livestock Farming
- Master in Aquaculture
- Master in Animal Genetics and Biotechnology of Reproduction
- Master's Degree in Laboratory Animal Science
- Master's Degree in Agricultural Engineering
- Master's Degree in Forest Engineering
- Doctorate programme in Animal Science and Technology

COMAV
Instituto Universitario de Investigación de Conservación y Mejora de la Agrodiversidad Valenciana
Institute for Conservation and improvement of Valencian Agrodiversity

Institute for Conservation and improvement of Valencian Agrodiversity (COMAV)
 Contact: adrobun@upv.es

RESEARCH LINES/CAPABILITIES/FACILITIES

- Seedbank & agrodiversity conservation
- Plant Breeding
- Plant Biotechnology
- Breeding for resilience
- Quality breeding
- Low input farming
- Phenomics
- Genetics and Genomics
- Organic farming
- Agricultural robotics
- Food safety
- Climate change mitigation

MASTER-PHD PROGRAMS

- Master's Degree in Plant Genetic Improvement
- Erasmus Mundus MSc in Plant Breeding (emPLANTz)

IBMCP
Instituto Universitario de Investigación Mixto de Biología Molecular y Celular de Plantas
Plant Molecular and Cellular Biology Joint Research Institute

Plant Molecular and Cellular Biology Joint Research Institute (IBMCP)
<https://ibmcp.upv.es>, @ibmcp.bsky.social, x.com/IBMCP, linkedin
 Director: Pablo Vera vera@ibmcp.upv.es

IBMCP's main activity is cutting-edge, high-quality scientific research aimed at generating knowledge about the key processes of plant growth and development and their capacity to adapt to the environment, with the ultimate goal of obtaining more productive and higher-quality crops.

RESEARCH DEPARTMENTS

- Plant Development and Hormone Action
- Biotechnology and Plant Breeding of Cultivated Species
- Plant Stress Biology

LEADING EDGE SCIENTIFIC FACILITIES

7000 m2 labs and core research services (Metabolomics, Microscopy, Cell Culture, DNA sequencing and Bioinformatics) + 4150 m2 greenhouses and growth chambers.

MASTER-PhD PROGRAMS

- Master's Degree in Plant Molecular and Cellular Biotechnology

PlantPhysiolUPV
Departamento de Producción Vegetal
Department of Plant Production

PlantPhysiolUPV @PlantPhysiolUPV
 Directors: Sergio González Nebauer/Rosa Victoria Molina

RESEARCH LINES

- Developmental physiology of geophytes
 PI: Rosa Victoria Molina Romero rvmolina@upv.edu.es
- Improvement of crop yield through the regulation of photosynthate partitioning
 PI: Sergio González Nebauer sergonne@upv.edu.es

CAPABILITIES/FACILITIES

- Integrative approaches combining agronomic, physiological and omics methodologies



DEA
Departamento de Ecosistemas
Agroforestales
Department of Agroforestry Ecosystems



Department of Agroforestry Ecosystems (DEA)



Director (IDEA): M^a Pilar Santamarina Skurana (mpsantam@eaf.upv.es);
Director (GIIA): Hugo Merle Farinos (humerfa@upvnet.upv.es)

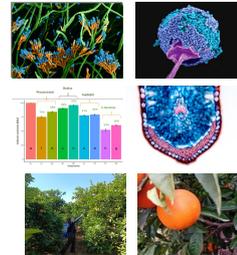
RESEARCH LINES/CAPABILITIES/FACILITIES

Research Structure Department of Agroforestry Ecosystems (IDEA):

- Antifungal potential of botanical compounds
- Natural biofilms in the preservation of fruits and vegetables
- Fungal ecophysiology
- Applied plant anatomy
- Quality control using optical microscopy of commercial saffron.
- Symbiosis, diversity, and evolution in lichens and plants: biotechnology and innovation

Applied Research in Sustainable Agronomy (GIIA):

- Applied Research in Sustainable Agronomy
- Studies on Citrus Creasing
- Plant Protection Products to Control *Alternaria alternata* in Citrus

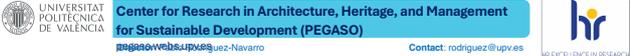


Alimentación

<p>CAMA Centro Avanzado de Microbiología Aplicada Applied Microbiology Advanced Research Centre</p>	<p>Applied Microbiology Advanced Research Centre/Centro Avanzado de Microbiología Aplicada (CAMA) DIRECTOR: Rosa Montes Estelés Contact: rmontes@btc.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Food Quality Control Detection and characterization of pathogenic microorganisms in food, water, air and surfaces Analysis of fungi in foods and environmental samples Antimicrobial resistance in foods and environmental samples Biological cleaning of mural painting, using live bacteria Biodegradation in works of art
<p>FoodUPV Instituto Universitario de Investigación de Ingeniería de Alimentos Food Engineering Research Institute</p>	<p>Food Engineering Research Institute (FoodUPV) www.foodupv.webs.upv.es / @foodupv (LinkedIn/X) Director: María Vargas Colás (mavarco@tal.upv.es) Contact: foodupv@upv.es</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> Food processing: Precision fermentation, 3D food printing, drying processes, antimicrobial systems, extrusion, bio-preservation, non-thermal technologies, wine-making Product development: Consumer preferences, oil structuring, food microstructure, functional foods Food safety and Quality control: Honey & beehive studies, LCA, winemaking monitoring, phytoc technology for process control, ultrasound for the non-destructive analysis Food packaging: Valorisation of food waste for biodegradable and active packaging materials Nutrition and health: Precision nutrition, toxicology model systems, food digestion, TTCs tools Valorisation of by-products: Food waste and traditional foods valorisation for new ingredients obtention <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Doctoral Program in Food Science, Technology and Management Master's Degree in Food Science and Engineering Master's Degree in Food Safety and Quality Management
<p>CUINA Grupo de Investigación e Innovación Alimentaria (Dpto. de Tecnología de Alimentos) Food Research and Innovation Group</p>	<p>Food Research and Innovation Group (CUINA) www.upv.es/contenidos/CUINA Director: Nuria Martínez Navarrete Contact: nmarin@tal.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Optimization of drying processes to maximize product quality: freeze-drying, atomization, air, microwave. Analysis of the nutritional profile and bioactive compounds, physical and techno-functional properties, in vitro bioactivity. Design of healthy and sustainable plant-based foods: powdered products, snacks, drinks, sauces, bars, spreads... Valorization of plant-based by-products as powdered food ingredients <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master's Degree in Food Science and Engineering Master's Degree in Food Safety and Quality Management Doctoral program in Food Science, Technology and Management

VICERRECTORADO DE INVESTIGACIÓN

Arte y patrimonio

<p>PEGASO Centro de Investigación en Arquitectura, Patrimonio y Gestión para el Desarrollo Sostenible Center for Research in Architecture, Heritage and Management for Sustainable Development</p>	 <p>Center for Research in Architecture, Heritage, and Management for Sustainable Development (PEGASO) pegaso.wbs.upv.es - pegas@wbs.upv.es - Navarro Contact: rodriguez@upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <p>The Research Center for Architecture, Heritage, and Sustainable Development Management (PEGASO) at the Universitat Politècnica de València is recognized as a center of excellence and national and international prestige in research, knowledge transfer, education, outreach, and cooperation in the fields of architecture, architectural heritage, and cultural management, all from the shared perspective of sustainable development. The center brings together researchers from diverse disciplines related to architecture and architectural heritage (including architectural conservation, surveys and preliminary studies, historical structures, development cooperation, public use and tourism management, traditional materials and techniques, and sustainable development, among others).</p> <p>Research Areas</p> <ul style="list-style-type: none"> - Architectural and Cultural Heritage - Methodologies for Knowledge and Understanding - Restoration, Conservation, and Heritage Management - Contemporary Architecture and Sustainability 
<p>CIAE Centro de Investigación Arte y Entorno Art and Environment</p>	 <p>Art and Environment (CIAE) www.upv.es/ciae - ciae.wbs.upv.es</p> <p>Director: Antonio Alcaraz Mira (aalcaraz@db.upv.es) Contact: ciae@upvnet.upv.es Secretary: Amparo Galbis (amagalbis@upv.es) Technical staff: Silvia Molinero (silmol@upv.es) ciae@upvnet.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <p>Mural painting / Languages, techniques and pictorial processes / Graphic work, creation and communication / Cultural criticism, ethics of care and exhibition management / Art and ecology: project development to increase environmental sustainability / Creative design and graphic illustration / Augmented reality: New tools to improve the visitor experience in museums and exhibitions / Pictorial production and dissemination / Art, ethics of care and integral health: information, advice and documentation / Landscape, territory and city in the visual arts</p> <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> - Master's Degree in Ecological Humanities, Sustainability, and Ecosocial Transition - Master's Degree in Art Therapy: Educational, Social, and Therapeutic Aspects of Art as an Accompanied Creative Experience - Participate in the Doctoral Program in Art: Production and Research 
<p>IRP Instituto Universitario de Investigación de Restauración del Patrimonio Institute of Heritage Restoration</p>	 <p>Institute of Heritage Restoration (IRP) https://irp.wbs.upv.es/</p> <p>Director: Victoria Vivanco Ramón Contact: vivanco@upv.edu.es</p> <p>CULTURAL HERITAGE RESEARCH AND TREATMENT:</p> <p>ARTISTIC HERITAGE:</p> <ul style="list-style-type: none"> - Study, analysis and diagnosis of pathologies. - Comprehensive conservation treatments. - Technical consulting and project management. - Preventive conservation analysis and design. - Consulting on ethical guidelines in conservation and restoration treatment. <p>BUILDINGS AND ARCHITECTURAL HERITAGE:</p> <ul style="list-style-type: none"> - Preliminary studies: historic studies, cross-sectional analysis, analysis of materials and techniques, analysis of material pathologies, structural analysis, etc. - Technical consulting and support: project planning and management. - Economic, social and technical sustainable planning. - Cataloguing of heritage property and sites. - Special conservation planning. 



VICERRECTORADO DE INVESTIGACIÓN

DIB

Departamento de Dibujo
Department of Drawing



Department of Drawing (DIB)

<https://dibujo.webs.upv.es> <https://www.instagram.com/dibujoupv/?hl=es>

Director: Francisco Berenguer Francés (frabefra@db.upv.es)

Contact: dibujo@upv.es



RESEARCH LINES/CAPABILITIES/FACILITIES

- **DESIGN RESEARCH AND MANAGEMENT GROUP**
(Design management, opportunity detection methodologies for generating new products and services; rapid prototyping technologies, digital modeling, and systemic design)
- **ANIMATION RESEARCH GROUP**
(Teaching and research in animation)
- **ART AND ENVIRONMENT RESEARCH CENTER**
(Graphic Work, Creation and Communication)

and collaboration with:

- Design for Manufacturing and Automated Production
- Center for Quality and Change Management
- Intermedia Creations Laboratory Group
- University Institute of Human-Centered Technology
- University Institute for Heritage Restoration
- Research Center in Architecture, Heritage and Management for Sustainable Development

MASTER-PHD PROGRAMS

- **Official PhD:** Doctoral Program in Art: Production and Research
- **Official Master's Degrees:** Master's Degree in Artistic Production - Master's Degree in Digital Postproduction - Master's Degree in Design Engineering
- **University-Specific Degrees:** Master's Degree in Animation - Master's Degree in Art Therapy - Master's Degree in Conservation and Restoration - Master's Degree in Design and Illustration - Master's Degree in Photography - Master's Degree in Interactive Technologies and Digital Fabrication - University Expert in Children's Products



DP

Departamento de Pintura
Painting department



Painting department

<https://pintura.webs.upv.es/>

Director: Francisco Giner Martínez (fginer@pin.upv.es)

Contact: deppin@upvnet.upv.es



DEPARTMENT OF PAINTING – ACTIVITIES

- Bachelor's Degree Teaching
- Bachelor's Degree in Fine Arts
- Bachelor's Degree in Design and Creative Technologies
- Bachelor's Degree in Conservation and Restoration of Cultural Heritage

Master's Teaching

- Master in Artistic Production (UPV Official Master)
- Master in Visual Arts and Multimedia (UPV Official Master)
- Master in Design and Illustration (MDI)
- Master in Humanities: Ecology, Sustainability and Ecological Transition (MHESTE)

Specialization and Expert Diplomas (MDI)

- Diploma of expert in Graphic Illustration
- Diploma of expert in Creative Design
- Diploma of expert in Interface Design

Other Specialized Programs

- DESEEA: Diploma of Specialization in Sustainability, Ecological Ethics and Environmental Education

Research

- Art and Environment Research Center (Centro de Investigación Arte y Entorno) (37 faculty members)
- Faculty researchers not affiliated with a research group (6 faculty members)
- Light Laboratory (Laboratorio de Luz) (6 faculty members)



Construcción e ingeniería civil

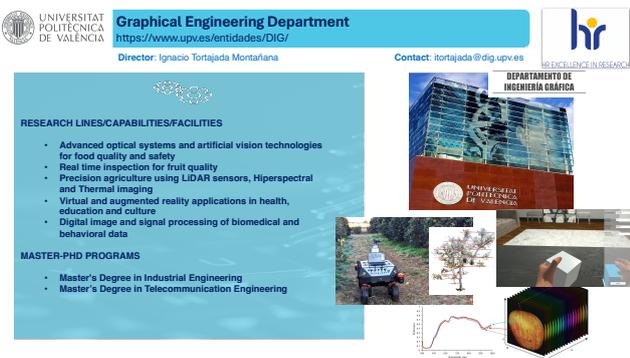
<p>CITE Centro de Investigación de Tecnología de la Edificación Building Technology Research Center</p>	<p>Building Technology Research Center (CITE) Director: Javier Berilloch Marco Contact: cite@csa.upv.es</p> <p>RESEARCH LINES / CAPABILITIES / FACILITIES</p> <ul style="list-style-type: none"> • Archaeology of architecture. • Architectural acoustics. • Architectural heritage technology and sensors. • Building reuse. • Concrete, mechanical properties, durability, monitoring and intervention. • Design and construction of emergency spaces. • Hbim, Modeling, maintenance in heritage buildings. • Heritage studies. • Hybrid structures. • Lighting in buildings. • Material characterization. • Non-destructive testing of wood and concrete. • Traditional architecture.
<p>CTF Centro de Tecnologías Físicas: Acústica, Materiales y Astrofísica Physical Technologies Center</p>	<p>Physical Technologies Center (CTF) Director: Jorge Curiel Esparza (jcuriel@fis.upv.es)</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Sustainable acoustic materials for the Green Economy. Numerical modeling in acoustic applications. Prediction of sound insulation and acoustic conditioning. Acoustic testing techniques and applied electroacoustics. • Optical Technologies. Development of new diffractive optical elements for various applications, including ophthalmic lenses (e.g., intracorneal implants) and optical trapping systems, in collaboration with healthcare institutions and companies in the optical sector. • Application of signal processing techniques to the design of flat lenses for ultrasonic targeting. • Spin-Crossover (SCO) Compounds are of significant applied interest for use in micro- and nano-electronic devices for information storage, due to their reversible spin-state transitions. The characterization of these materials is carried out using X-ray diffraction, as well as magnetic, optical (absorption, fluorescence), and calorimetric measurements, among others. • Materials Under Extreme Pressure Conditions. Development of exotic materials based on noble gases -particularly helium- under extreme pressure conditions. Since most matter in the universe exists at high pressures (>1 GPa), studying one of the most abundant elements under such conditions provides insights into a wide range of astrophysical phenomena. • Astrophysical Ice Simulation. The Astrophysics Group synthesizes ices under astrophysical conditions in the laboratory to measure properties such as density, refractive index, porosity, and desorption energy.
<p>ITRAT Instituto del Transporte y Territorio Research Institute of Transportation and Territoty</p>	<p>Research Institute of Transportation and Territoty (ITRAT) https://www.upv.es/entidades/ITRAT/ Director: Jorge Molines Llodrà (jmolino@upv.es) Secretary: Alfredo García García Contact: jmolino@upv.es</p> <p>RESEARCH LINES/CAPABILITIES</p> <ul style="list-style-type: none"> • Port and Coastal Engineering (Port planning and management; design, construction, maintenance, and small-scale tests of coastal structures (Cubipod®), coastal processes; smart ports) • Road Engineering (Road planning and management; road safety; sustainable pavements; design, construction, and maintenance of roads; smart roads) • Railway Engineering (Railway planning and management; design, construction, and maintenance of railway infrastructure and superstructure) • Logistics, Mobility, and Transports (Sustainable mobility planning and management; economic evaluation of transportation services; modal shift studies; smart mobility) <p>FACILITIES</p> <ul style="list-style-type: none"> • Laboratory of Ports and Coasts (Tsunamis, wind, and wave 2D flume) • Laboratory of Road and Traffic Engineering <p>PHD IN TRANSPORTATION INFRASTRUCTURES AND TERRITORY</p>

VICERRECTORADO DE INVESTIGACIÓN

<p>ICITECH Instituto Universitario de Investigación de Ciencia y Tecnología del Hormigón Institute of Concrete Science and Technology</p>	<p>Institute of Concrete Science and Technology (ICITECH) https://icitech.webs.upv.es/ Director: José R. Martí Vargas (direccion@icitech.upv.es)</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Concrete science and technology • Structural systems • Construction technologies and procedures • Experimentation in structural and construction engineering • Construction and building materials chemistry • Optimization and life cycle assessment • Sustainability and durability • Monitoring, maintenance and pathology • Structural safety • New materials • Industrialization, prefabrication and modular construction • Resistance to fire and extraordinary events <ul style="list-style-type: none"> • 32x15 m² strong floor / 14 m high 3D reaction wall • Centralized hydraulic system / Actuators from 10 to 5000 kN
<p>DIGCF Departamento de Ingeniería Cartográfica, Geodesia y Fotogrametría Department of Cartographic Engineering, Geodesy and Photogrammetry</p>	<p>Department of Cartographic Engineering, Geodesy and Photogrammetry https://www.upv.es/entidades/digcf/ /x.com/Departamentov Director: Angel Martin Furones Contact: aemartin@upvnet.upv.es</p> <p>RESEARCH GROUPS/LINES:</p> <ul style="list-style-type: none"> • Geoenvironmental Cartography and Remote Sensing Research Group (CGAT): development of geoinformation technology tools based on remote sensing, GIS and LIDAR processing to analyze and map the territory, and its application in the study of the environment and natural resources in its broadest sense: forestry, agricultural, urban and coastal areas. Dir: Josep E. Pardo Pascual. • Photogrammetry and Laser Scanning Research Group (GIFL): New advances and technologies related to Photogrammetry, Computer Vision, Laser Scanning and Remote Sensing. Dir: José Luis Lerma García. • Geodesy, Cartography and GNSS Group: GNSS submillimeter distancing for dimensional metrology, deformation monitoring, GNSS for the study of the troposphere, GNSS reflectometry, Geodynamics, real estate delimitation and legal geometries, Cartographic Coordination in the Territorial Administration System, Geolocation and characterization of safe public spaces in terms of gender violence, and UAS (drones). Dir: Sergio Baselga Moreno. <p>MASTER-PHD PROGRAMS:</p> <ul style="list-style-type: none"> • Inter-University Doctorate Program in Geomatics Engineering
<p>MES Departamento de Mecánica de los Medios Continuos y Teoría de Estructuras Department Continuum Mechanics and Theory of Structures</p>	<p>Department Continuum Mechanics and Theory of Structures (MES) www.mes.upv.es Director: Manuel L. Romero Contact: depmes@upvnet.upv.es</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> • Lightweight structures for housing emergencies • Thin walled structures & buckling • Wind-induced vibration mitigation of bridge decks • Theoretical and experimental bridge dynamics. Vibration control. • Acoustic and dynamic characterization of materials.



Diseño gráfico e industrial

<p>CITG Centro de Investigación en Tecnologías Gráficas Research Centre in Graphic Technologies</p>	 <p>Research Centre in Graphic Technologies (CITG) Director: Beatriz Defez García Contact: bdefez@upv.es</p> <p>We are a multidisciplinary group specialized in identifying synergies between processes, areas, and domains of knowledge</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> • Concept Design and Prototype Development • Computer-Aided Design (CAD) and digital prototyping • Graphic engineering and digital design innovation, 3D modelling, and virtual reality environments • Assistive technologies for people with disabilities (visual, mobility, and cognitive) • Color science, perception, and psychophysics for digital imaging • Manufacturing process analysis for improvements • Tile Industry & Printing Industry, image processing and computer vision in medical imaging <p>CAPABILITIES</p> <ul style="list-style-type: none"> • Development of CAD/CAM solutions for design and engineering • Quantitative analysis of medical images and diagnostic support systems • Design and prototyping of low-cost assistive devices • Virtual and augmented reality applications for cultural heritage and education • Simulation and evaluation of accessibility in digital platforms and physical products <p>FACILITIES</p> <ul style="list-style-type: none"> • Advanced laboratories for digital imaging and graphic technologies • Virtual reality and 3D visualization rooms • Prototyping workshops equipped with CAD/CAM tools • Acoustic testing facilities for assistive technology devices • Computational resources for image processing and environmental modelling <p>citg.es Centro de Investigación en Tecnologías Gráficas</p>
<p>DIG Departamento de Ingeniería Gráfica Graphical Engineering Department</p>	 <p>Graphical Engineering Department https://www.upv.es/entidades/DIG/ Director: Ignacio Tortajada Montañana Contact: itortajada@dig.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Advanced optical systems and artificial vision technologies for food quality and safety • Real time inspection for fruit quality • Precision agriculture using LIDAR sensors, Hyperspectral and Thermal imaging • Virtual and augmented reality applications in health, education and culture • Digital image and signal processing of biomedical and behavioral data <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> • Master's Degree in Industrial Engineering • Master's Degree in Telecommunication Engineering



Energía

<p>ITE Instituto de Tecnología Eléctrica Electrical Technology Institute</p>	 <p>Electrical Technology Institute (ITE) www.ite.es Director: Alfredo Culligano (aculligano@ite.upv.es) Secretary: Vicente Fuster (vfuster@ite.upv.es)</p>  <p>Joint Research Center UPV – Energy Technology Institute Association</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> • Monitoring and diagnosis of high-voltage power networks • Insulating materials • Industrial electrostatics / • Advanced techniques for fault detection in electric motors • Monitoring of electric motors for diagnostics and efficiency estimation <p>FACILITIES</p> <ul style="list-style-type: none"> • High Voltage Laboratory • Materials Laboratory for Electrical Installations • Industrial Electrostatics Laboratory • Electric Motor Testing Laboratory 
<p>IIE Instituto Universitario de Investigación de Ingeniería Energética Institute for Energy Engineering</p>	 <p>Institute for Energy Engineering (IIE) https://ie.webs.upv.es/ Linkedin Director: José María González Maciá Contact: energet@upvnet.upv.es</p>  <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> • Renewables & Advanced Energy Systems • Thermo-Hydraulics & Nuclear • Renewable Thermal • Electricity Systems & Markets • Electric Equipment & Systems <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> • Master Studies on Energy Engineering • Doctoral Studies on Energy 



ISIRYM

**Instituto Universitario de
Investigación de Seguridad Industrial,
Radiofísica y Medioambiental**
Research Institute for Industrial,
Radiophysical and Environmental Safety



**Research Institute for Industrial, Radiophysical and Environmental
Safety (ISIRYM)** <https://isiryms.webs.upv.es/isiryms> <https://www.linkedin.com/company/isiryms/>



Director: José Antonio Mendoza Roca (jamendez@iqn.upv.es)

RESEARCH LINES

- Neutronics and nuclear safety
- Radiological protection in radioactive and nuclear facilities
- Quality control, evaluation and improvement for radiological treatments and equipments
- Radiotherapy Planning System development
- Study of environmental radiation. Radon and its descendants.
- Membrane processes applied to water and wastewater for valuable compounds recovery and water reuse.
- Characterization and separation of microplastics and elimination of other emergent compounds.
- Ecoprocesses: Production and application of natural coagulants, natural circulation evaporators and fabrication of sustainable membranes.
- Recovery of valuable and critical metals from electronic wastes and used batteries by electrochemical processes.
- Removal of emerging pollutants by electrochemical and photoelectrochemical advanced oxidation processes.
- Development of electrode materials for water electrolysis and redox flow batteries.



VICERRECTORADO DE INVESTIGACIÓN

Gestión empresarial y economía de la innovación

<p>CQ Centro de Gestión de la Calidad y del Cambio Centre for Quality and Change Management</p>	<p>Centre for Quality and Change Management (CQ) Director: Andrés Camón García Contact: acarion@cq.upv.es</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> • Statistical Quality Control • Quality Management • Quality Improvement • Applied Statistics • Innovation Management • Innovation in Craftsmanship • Change Management • Digital Divide and Functional Diversity • Excellence in Sports Management
<p>PRINS Centro de Investigación en Dirección de Proyectos, Innovación y Sostenibilidad Project Management, Innovation and Sustainability Research Center</p>	<p>Project Management, Innovation and Sustainability Research Center (PRINS) prins.upv.es/ https://www.linkedin.com/company/prins-upv/ Director: Miguel Ángel Artacho Ramirez (miaarra@dpi.upv.es) Secretary: José Luis Fuentes Bargas (joflubar@dpi.upv.es)</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <p>Applied research in Project Management, Engineering, and Innovation Focus on urban sustainability, circular economy, and energy transition. Participation in European projects.</p> <p>Key research areas:</p> <ul style="list-style-type: none"> • Project Management Office & Innovation Management Office • Sustainability & Project Management for urban transformation • Decision support tools (MCOM & AI-based decision-making) • Stakeholder Analysis • Lean Business Design • Tech Mining & Future Scenario Design • Social Innovation & Entrepreneurship • Eco-design & Circular Product Design • Life Cycle Analysis (LCA) & Eco-labels • Team Transition & Waste Valorisation • Smart Cities & Smart Rural Development <p>Certified training in:</p> <ul style="list-style-type: none"> • Sustainable development and innovation leadership <p>Flagship projects:</p> <ul style="list-style-type: none"> • Energy & Environmental Performance Analysis of the Valencian Ports. • Circularity Indicators to Guide Consumers on Repairing Electronic Devices. • LCA & Eco-efficiency analysis of the Balearic Port Terminals • Carbon Footprint and Lean & Green Program in the Logistics Sector
<p>CIGIP Centro de Investigación en Gestión e Ingeniería de Producción Research Centre on Production Management and Engineering</p>	<p>Research Centre on Production Management and Engineering (CIGIP) https://cigip.webs.upv.es/ Director: Eduardo Vicens (evicens@cigip.upv.es) Contact: info@cigip.org</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <p>Analytics, Optimisation & Intelligent Algorithms</p> <ul style="list-style-type: none"> • Algorithms for Finance and Insurance • Algorithms for Transportation and Logistics • Artificial Intelligence • Data Analytics • Intelligent Algorithms • Machine Learning <p>Engineering and Performance Management Systems</p> <ul style="list-style-type: none"> • Sustainability Performance Management • Collaborative Performance Management Systems • Multicriteria Techniques for Performance Management Systems • Performance and Knowledge Management • Performance Management Systems under Uncertainty • Quantitative Performance Measurement Systems <p>Supply Chain Strategy and Engineering</p> <ul style="list-style-type: none"> • Digital Platforms for Supply Chain Operations • Maturity Models for Supply Chain • Reference Models for Supply Chain • Supply Chain Digitalisation • Supply Chain Strategy • Zero Defects Manufacturing Strategies <p>Collaborative Supply Chains</p> <ul style="list-style-type: none"> • Collaborative Forecasting and Production Planning • Data Sharing Systems and Data-driven Manufacturing • Supply Chain Digital Twin • Supply Chain Operations Internationalisation • Supply Chain Optimisation and Simulation • Supply Chain Resilience and Sustainability <p>Smart and Sustainable Production and Logistics</p> <ul style="list-style-type: none"> • Business Process Modelling, Management and Reengineering • IT-enabled for Smart Supply Chain Management • Modelling, Simulation and Optimisation for Decision Making • Production Planning and Order Management • Supply Chain Design & Management 4.0 • Sustainable Direct and Reverse Logistics <p>Workplaces and Distributed Environments Engineering</p> <ul style="list-style-type: none"> • Decision Support Systems • Distributed Environment Lean Production Indicators • Lean Technologies for Flow Production Redesign • Standardisation of Manufacturing Operations • Workforce Training Systems • Workplaces and Workforce Optimisation



VICERRECTORADO DE INVESTIGACIÓN

CEGEA

Centro de Investigación en Gestión de Empresas

Research Center in Business Management



Research Center in Business Management (CEGEA)

www.cegea.upv.es

Director: Felipe Palau Ramírez (fpalau@upv.es)

Secretary: Erasmo I. López (erllope@upv.es)



RESEARCH LINES/CAPABILITIES/FACILITIES

- Agricultural Economics and Cooperativism
- Accounting, Auditing, Taxation, and Public Sector
- Law and Business
- Entrepreneurship, Innovation, and Social Responsibility

MASTER-PHD PROGRAMS

- Master in Agrifood Business Management and Marketing – MBA
- Master in Agrifood Cooperative Management – MBA
- Master in Business Management and Digital Transformation
- Master in Business Management and Strategic Planning – MBA



ESTABLISHMENT: The Center for Specialization in Agri-Food Business Management was established in 1979. In 1996, it was consolidated as its own Research Structure, acquiring its current name.

VISION: To be a leading university research center in the field of business management.

MISSION: Research in all disciplines of business management, especially those of the social economy, and its transfer to the productive sector, helping to resolve legal, commercial, accounting, and financial problems.

VALUES: maintain a strong commitment to a well done job, the UPV, and the society.

INGENIO

Instituto de Gestión de la Innovación y del Conocimiento

Management of Innovation and Knowledge Research Institute



INGENIO

<https://www.ingenio.upv.es/> - LINKEDIN - BlueSky

Director: David Consoli

Contact: david.consoli@cpic.upv.es



RESEARCH LINES/CAPABILITIES/FACILITIES

- Sustainability Transformations
- Science, Technology and Innovation (STI) Governance
- Collaborative generation and application of knowledge
- Science, Technology and Human Capital
- Cultural dimensions of Science & Innovation

MASTER-PHD PROGRAMS

- Master in Project Management
- Master en Cooperación al Desarrollo
- Master de Formación Permanente en Gestión de la Ciencia y la Innovación
- Doctorado en Desarrollo Local y Cooperación Internacional
- Doctorado en Diseño, Fabricación y Gestión de Proyectos Industriales



Industria química y materiales

<p>ITQ Instituto Universitario de Investigación Mixto de Tecnología Química Institute of Chemical Technology</p>	<p>Institute of Chemical Technology (ITQ) https://itq.upv-csic.es/ Director: Jose Manuel Serra Contact: jmserra@itq.upv.es</p> <p>RESEARCH LINES/</p> <ul style="list-style-type: none"> Catalysis for sustainable chemical processes. Photo- and electrochemistry Renewable fuels and chemicals; and green H₂ development Surface science and adsorption studies. Zeolites and microporous materials Functional materials for energy transformation and storage CO₂ and biomass valorisation, waste upcycling, and biorefineries Environmental remediation and pollutant removal Process intensification, modelling, and engineering scale-up <p>CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Materials synthesis and device fabrication facilities Advanced materials characterization suites, including in-situ testing Catalytic reactors for a wide range of chemical processes, scales, and operation conditions, including photo- and electrochemical reactors Pilot plant testing and scale-up Strong industry collaboration, technology transfer, and innovation <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master in sustainable chemistry Expert course on industrial decarbonization and energy process optimization Doctorate program in sustainable chemistry
<p>IUTM Instituto Universitario de Investigación de Tecnología de los Materiales Research Institute for Materials Technology</p>	<p>Research Institute for Materials Technology (IUTM) https://itm.webs.upv.es/ Director: Dr. Juan López Martínez Contact: jlopezm@mcm.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Advanced recycling processes for polymeric materials Use of natural by-products to obtain biodegradable plastics Development of meta alloys for biomedical applications Sintering of ceramic materials with advanced properties Powder metallurgy processes Advanced Two-Dimensional Nanomaterials Prototyping & Functional Polymeric Materials in the industrial and biomedical sector. <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master's Degree in Materials Engineering, Science Processing, and Characterisation (https://www.upv.es/estudios/master/mulpcm/)
<p>MEDASEGI Grupo de Medioambiente y Seguridad Industrial (Dpto. de Ingeniería Química y Nuclear) Environmental and industrial safety group (Dept. of Chemical and Nuclear Engineering)</p>	<p>Dept. of Chemical and Nuclear Engineering/Environmental and industrial safety group (MEDASEGI) https://sn.medasegi.webs.upv.es/ Director: José Felipe Villanueva Contact: depqnn@upvnet.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Environmental Radiological Surveillance Radiation surveillance in nuclear or radiological emergencies Natural radiation (NORM and Radon) Radioecology Advanced reactors Reactor Safety Probabilistic Risk Analysis Reliability and asset management



DITEXPA

**Departamento de Ingeniería Textil y
Papelería**

**Textile and Paper Engineering
Department**



Textile and Paper Engineering Department (DITEXPA)

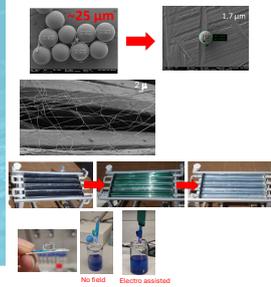
<https://www.upv.es/entidades/ditp/>

Director: Pablo Diaz Garcia

Contact: pdiazga@upv.es



- **ELECTROCATALYSIS, ELECTROCHEMICAL SYNTHESIS AND POLYMER CHARACTERIZATION**
TEXTILE SUPERCAPS
Efficient in electrical accumulation, flexible, low cost and "eco-friendly"
- **ELECTROCHEMICAL REMOVAL OF MICRO AND NANOPLASTICS**
Development of electrode materials for the electrochemical oxidation of micro- and nanoplastics in aquatic media
- **TEXTILE ENGINEERING RESEARCH GROUP (TITEX)**
Development of innovative solutions for the functionalization of textile materials, with a firm commitment to sustainability and the circular economy throughout the textile value chain.
- **ADVANCED OXIDATION PROCESSES GROUP**
Advanced water treatment using solar photochemical oxidation or UVC or UVB lamps. Biocompatibility and toxicity studies of treated samples.
- **NON-GROUPED RESEARCHERS**
Electro-assisted L-L and S-L extraction, Electrochemical applications of DES and eutectogels, Nanocatalysts for biomass valorization, Spectroelectrochemical biosensors for environmental monitoring



Informática, automatización industrial y logística

<p>AI2 Instituto Universitario de Investigación de Automática e Informática Industrial Automatics and Industrial Informatics University Research Institute</p>	<p>Automatics and Industrial Informatics Research Institute (AI2) https://www.ai2.upv.es/ @institutuai2 Director: Ramón Blasco-Giménez Contact: rblasco@upv.es</p> <p>RESEARCH AREAS</p> <ul style="list-style-type: none">• Process Control• Computer Graphics and Multimedia• Industrial Informatics• Robotics• Computer Vision <p>FACILITIES</p> <ul style="list-style-type: none">• Lab for automation of Food Industry• Synthetic Biology Lab• Renewable Energy Lab• Industry 4.0 Laboratory• Technodiabetes Lab• Testes Padille Lab• MEDERI Living Lab• Smart Industry Lab <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none">• Master's Degree in Automation and Industrial Computing
<p>DISCA Departamento de Informática de Sistemas y Computadores Department of Computer Engineering</p>	<p>Department of Computer Engineering (DISCA) http://www.disca.upv.es Director: Juan-Luis Posadas-Yagüe Contact: Julio Sahuquillo Borrás (sahuquillo@disca.upv.es) Pietro Manzoni (pmanzoni@disca.upv.es)</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none">• High-Performance Interconnects• Architectures• Architecture-aware HPC Algorithms• Embedded Devices• Cloud Computing• Resource Management• Quantum Computer• AIoT Infrastructures for environmental sustainability• Drone networks and swarms• Efficient IoT Infrastructures development• Intelligent Transport Systems• LPWAN-based networks• Mobile edge computing• Pub/Sub systems• Social sensing <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none">• Master's Degree in Computer and Network Engineering• https://www.upv.es/estudios/master/muic/en/home/
<p>DSIC Departamento de Sistemas Informáticos y Computación Department of Computer Systems and Computation</p>	<p>Department of Computer Systems and Computation (DSIC) https://www.upv.es/entidades/DSIC/ Director: M^a Carmen Penadés (mpenades@dsic.upv.es) Contact: depsic@upvnet.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none">• Parallel algorithms for the computation of large-scale sparse matrices• Numerical methods for solving linear and nonlinear problems• Software engineering for large-scale scientific computing• Parallel matrix computation on GPUs and accelerators• Simulation of the biomechanical behavior of human tissues/organs• Automatic supervision systems for surgical training• Medical image processing• Research in Formal Language Theory and Finite Automata• Research in Grammatical Inference• Research in Natural Computation using biomolecular and cellular models <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none">• PhD in Computer Science• https://www.upv.es/entidades/doctorado/en/doctorate-program-in-computer-science/

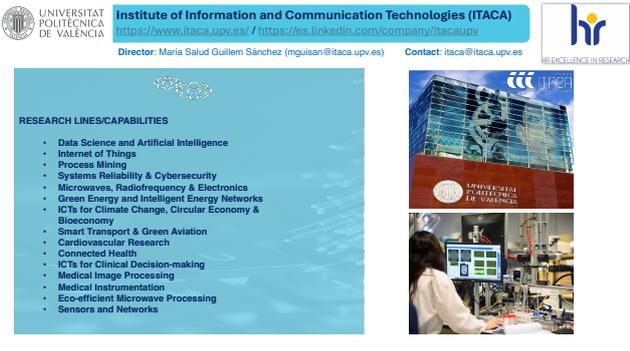
Matemàtica

<p>IMM Instituto Universitario de Investigación de Matemática Multidisciplinar Research University Institute of Multidisciplinary Mathematics</p>	<p>Research University Institute of Multidisciplinary Mathematics (IMM) https://imm.webs.upv.es/ @imm_UPV @immupv.bsky.social Director: Juan Carlos Cortés López (jccortes@imm.upv.es) Contact: imm@imm.upv</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> Matrix analysis. Applications to control systems in engineering, epidemiology, etc Mathematical modeling of civil infrastructures Design of iterative and quantum methods for solving nonlinear equations Modeling in genetics and medicine Numerical methods for solving PDEs in Finance and computing premiums of derivatives High-performance computing. Optimal evaluation of matrix functions Relativistic physics Differential equations with uncertainties and modelling of real-world problems Numerical and AI methods for nuclear reactor simulation General systems theory: models of human behaviour Numerical methods for the geometric integration of ODEs and PDEs Mathematical methods for Astrophysics problems Complex networks. Graphs Mathematical modeling of fluid systems with AI <p>Research groups at IMM</p> <ul style="list-style-type: none"> AMATA CIVIL DAHRES MEDICINA IMM FINANZAS HPENSE MUNDU NUCLEAR
<p>IUMPA Instituto Universitario de Investigación de Matemática Pura y Aplicada Pure and Applied Mathematics University Research Institute</p>	<p>Pure and Applied Mathematics University Research Institute (IUMPA) https://iumpa.webs.upv.es/ https://www.youtube.com/@iumpa_upv6981 Director: Jose Manuel Calabuig (jcalabu@upv.es) Contact: impaupv@upvnet.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES.</p> <ul style="list-style-type: none"> Pure Mathematics Algebra, Mathematical Analysis, Geometry, Topology Applied Mathematics Fundamentals, Biology, Social and Health Sciences Physics, Machine Learning, Artificial Intelligence <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master InvestMat (MUMA) https://www.upv.es/estudios/master/muma/ PhD in Mathematics (UPV-LV) https://www.upv.es/en/stades/doctorado/en/doctorate-program-in-mathematics/
<p>GIEM Grupo de Ingeniería Estadística Multivariante (Departamento de Estadística e Investigación Operativa Aplicadas y Calidad) Multivariate Statistical Engineering Group (Dept. of Applied Statistics and Operational Research, and Quality)</p>	<p>Multivariate Statistical Engineering Group (GIEM) https://giem.blogs.upv.es Responsible: Alberto J. Ferrer-Riquelme (aferrer@eio.upv.es)</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> L1: Data analytics: Analysis, monitoring, fault diagnosis and optimization of multivariate processes in industry 4.0 L2: Process chemometrics and multivariate calibration L3: Integration of statistical monitoring (SPC) with regulation (EPC) of multivariate processes L4: Magnetic Resonance Medical Image Analysis L5: Image Analysis for industry 4.0 L6: Statistical Methods Applied to the "Omics" Sciences L7: Systems Biology L8: Olfactory Sensometry L9: Environmetrics for cultural heritage L10: Functional Data Analysis (FDA) <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master in Data Analysis Engineering, Process Improvement and Decision Making PhD Programme in Statistics and Optimisation <p>GIEM Grupo de Ingeniería Estadística Multivariante</p>

Salud, calidad de vida y educación

<p>CBIT Centro de Biomateriales e Ingeniería Tisular Centre for Biomaterials and Tissue Engineering</p>	<p>Centre for Biomaterials and Tissue Engineering (CBIT) https://cbit.webs.upv.es/ Director: Isabel Tort Auzina isatort@fis.upv.es Manager: Andrés Alba Pérez aalba@upv.es</p> <p>RESEARCH LINES / CAPABILITIES / FACILITIES</p> <ul style="list-style-type: none">• Material-based cell culture systems. In vitro models of healthy and pathological tissues. Hydrogels, microgels, 3D bioprinting, LBL.• Materials for tissue engineering and controlled drug release. Articular cartilage, end-stage liver disease, dental materials, muscle regeneration, spinal cord injury and neural regeneration, chronic skin wounds, gastrointestinal disorders, osteosarcoma.• Study of the cell-material interface. Cell adhesion, mechanotransduction, growth factor receptors, ion channels.• Development and characterization of materials. Membranes, hydrogels, scaffolds, nanoparticles, microgels. Surfaces with functional biological properties (proteins and other macromolecules grafting).• Development of functional, biologically relevant systems. For tissue engineering, targeted drug delivery, in vitro modelling, study of cell biology.• Access to human primary cells or tissues.• Development of animal experimental models.• Histomorphometric characterization of samples. From in vivo and in vitro models. Confocal and electron microscopy.
<p>Instituto de Instrumentación para Imagen Molecular</p>	
<p>I2MB Instituto Universitario de Investigación Concertado de Ingeniería Mecánica y Biomecánica Institute of Mechanical Engineering and Biomechanics</p>	<p>Institute of Mechanical Engineering and Biomechanics (I2MB) https://i2mb.upv.es/ Directora: Ana Vercher Martínez Contact: i2mb@upv.es</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none">• Structural Integrity Advanced numerical simulation, Modeling of Composite Materials, Fatigue & Durability, Bone Mechanics• Railways Dynamics, Nonlinear system dynamics (pantograph-catenary interaction)• Noise and Vibration Acoustic Modelling of Automotive Exhaust Devices, Railway Noise• Robotics Simulation of robotized production lines, Robotics to biomechanics applications, Design of mobile robots for special applications, Software development for dynamic control of robots• Computational Mechanics Cartesian and Finite Element Method – cgFEM, Structural Topological and Shape Optimization, Machine Learning <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none">• Master's Degree in Mechanical Engineering• PhD in Industrial Engineering and Production
<p>HUMAN-tech Instituto Universitario de Investigación en Tecnología Centrada en el Ser Humano University Institute for Research in Human-Centered Technology</p>	<p>University Institute for Research in Human-Centered Technology (HUMAN-tech) https://humantech.upv.es/en/home/ Director: Mariano L. Alcaláiz Raya (malcanz@htech.upv.es) Subdirector: vnrarajo@htech.upv.es</p> <p>RESEARCH LINES/CAPABILITIES</p> <ul style="list-style-type: none">• Artificial intelligence to transform health, society, agriculture, and industry• Pioneers in AI and Extended Reality to enhance human cognition• Advancing brain recovery through technology and multidisciplinary research• We evaluate how architectural and urban space influences people by analyzing their psychological, neurophysiological and behavioral response• Technology applied to the improvement of Occupational Health• Smart Technologies for the Design and Development of Human Capabilities <p>FACILITIES</p> <ul style="list-style-type: none">• High-performance computing infrastructure• Electroencephalography, eye tracking, GSR, capture, motion tracking, Electromyography.• 3D cave, videowall, HMD, TDCs.

Tecnologías de la información y las comunicaciones

<p>Instituto Universitario de Investigación Mixto de Tecnología de Informática</p>	
<p>NTC Instituto Universitario de Investigación de Tecnología Nanofotónica Nanophotonics Technology Center</p>	 <p>Nanophotonics Technology Center (NTC) www.ntc.upv.es / @upvntc Director: Roberto Llorente Sáez. Contact: rlorent@ntc.upv.es</p> <p>RESEARCH LINES</p> <ul style="list-style-type: none"> • PHOTONIC INTEGRATED DEVICES • PHOTONIC INTEGRATED SYSTEMS AND APPLICATIONS • OPTICAL NETWORKS AND TELECOMMUNICATION SYSTEMS • PLASMONICS, OPTOMECHANICS AND CHIRAL PHOTONICS • BIOPHOTONICS • PHOTONIC TECHNOLOGIES FOR APPLIED ANALYTICS • THz PHOTONICS AND OPTICAL SIGNAL PROCESSING • ARTIFICIAL MATERIALS AND METASURFACES • III-V SEMICONDUCTORS AND GRAPHENE • NOVEL NANOMATERIALS • PHOTOVOLTAICS <p>FACILITIES</p> <ul style="list-style-type: none"> • 3800 m² building including a 500 m² clean room (class 10-100-10,000) • 6 / 8-inch 'one of kind' state-of-the-art CMOS-photronics FAB. • Silicon photonics prototyping and full fabrication cycle, including back-end services (packaging) • Appointed as <i>Infraestructura Científica y Técnica Singular</i> (ICTS)
<p>ITACA Instituto Universitario de Investigación de Tecnologías de la Información y Comunicaciones Institute of Information and Communication Technologies</p>	 <p>Institute of Information and Communication Technologies (ITACA) https://www.itaca.upv.es/ / https://es.linkedin.com/company/itacaupv Director: María Salud Guillem Sánchez (mguisan@itaca.upv.es) Contact: itaca@itaca.upv.es</p> <p>RESEARCH LINES/CAPABILITIES</p> <ul style="list-style-type: none"> • Data Science and Artificial Intelligence • Internet of Things • Process Mining • Systems Reliability & Cybersecurity • Microwaves, Radiofrequency & Electronics • Green Energy and Intelligent Energy Networks • ICTs for Climate Change, Circular Economy & Bioeconomy • Smart Transport & Green Aviation • Cardiovascular Research • Connected Health • ICTs for Clinical Decision-making • Medical Image Processing • Medical Instrumentation • Eco-efficient Microwave Processing • Sensors and Networks
<p>ITEAM Instituto Universitario de Investigación de Telecomunicación y Aplicaciones Multimedia ITEAM Research Institute</p>	 <p>ITEAM Research Institute (ITEAM) https://www.iteam.upv.es/ - https://www.linkedin.com/company/iteampw/ Director: Eva Antonino Daviu Contact: evanda@upvnet.upv.es</p> <p>MAIN RESEARCH LINES</p> <ul style="list-style-type: none"> • Photonics, optics and quantum optics • 5G/6G networks, mobile communication systems, Broadcast, WiFi • Immersive communications multimedia technologies • Antenna and microwave design and characterization • Space communications systems • Propagation and channel modelling • Signal processing • Digital systems • Audio, image, and biomedical signal processing • IP-based multimedia platforms and services <p>MAIN FACILITIES</p> <ul style="list-style-type: none"> • Photonics Facilities <ul style="list-style-type: none"> ◦ Photonics Lab ◦ UPVfab: 500m² ISO-7 (class 10.000) clean rooms • Mobile Communications Labs <ul style="list-style-type: none"> ◦ 5G/6G/4G Technologies Lab ◦ Immersive communications Lab ◦ Wireless Body Communications Lab • Antennas and Propagation Lab with an Anechoic chamber and prototyping lab • Applied Microwaves Lab <ul style="list-style-type: none"> ◦ Laboratory of High-Frequency Circuits (LCAF) with two ISO-certified cleanrooms (ISO 7 Class 10,000 and ISO 6 Class 1,000) ◦ European High-Power RF Space Laboratory • Signal And Data Processing Labs <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> • MSc in Telecommunication Engineering • MSc in Communication Technologies, Systems and Networks • MSc in Quantum Information and Photonics • MSc in Integrated Photonics • PhD in Telecommunications • PhD in Integrated Photonics

VICERRECTORADO DE INVESTIGACIÓN

<p>VRAIN Instituto Universitario Valenciano de Investigación en Inteligencia Artificial Valencian Research Institute for Artificial Intelligence</p>	<p>Valencian Research Institute for Artificial Intelligence (VRAIN) vrain.upv.es https://www.postdoctor.com/temas/UCAP_TORRES_VRAIN_150916</p> <p>Director: Vicent Botti (vbotti@vrain.upv.es) Contact: vrain@upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Natural Language Processing Planning and Reasoning Software analysis, verification and testing Machine Learning and Deep Learning Computational Logic and Automated Reasoning Intelligent Agents/Multiagent Systems and Human Centered AI AI, Privacy and Security AI in Health Sciences Natural Computing Genome Data Science Genomic Information Systems Responsible AI AI Evaluation Generative AI and Agentic AI <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master's Degree in Artificial Intelligence, Pattern Recognition and Digital Imaging Master's Degree in Software Engineering, Formal Methods and Information Systems Master's Degree in Biomedical Engineering Master's Degree in Cloud Computing and High Performance <p>160 staff members:</p> <ul style="list-style-type: none"> 80 Lecturers and researchers 22 Full-time researchers 30 Early Stage Researchers 28 Technical Staff 100 doctors & 14 Full professors <p>Research Groups</p>
<p>DCADHA Departamento de Comunicación Audiovisual, Documentación e Historia del Arte Audiovisual Communication, Documentation and Art History</p>	<p>Audiovisual Communication, Documentation and Art History (DCADHA) https://dcadha.webs.upv.es/@dcadhaupv</p> <p>Director: Nuria Ramón Marqués Contact: nramon@har.upv.es</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> ArtiCom Research Group (https://articom.webs.upv.es/) <ul style="list-style-type: none"> Visual Culture: Aesthetics and Politics Audiovisual Media and Mass Communication Communication and Artistic Expression in Western Culture Audiovisual Aesthetics Metrics Lab Research Group (https://metricslab.webs.upv.es/) <ul style="list-style-type: none"> Science studies Digital analytics and SEO/SEM Digital behavior of social actors <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> PhD in Communication and Cultural Industries
<p>DCom Departamento de Comunicaciones Communication department</p>	<p>Communication department www.dcom.upv.es</p> <p>Director: Ignacio Bosch (igbosroi@dcom.upv.es)</p> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> IoT and Edge/Cloud Continuum Group (Carlos E. Palau / cpalau@dcom.upv.es / https://bit.ly/45pD10z) IoT platforms, Edge/Cloud, SD-WAN, AI in transport/Logistics, Digital Twins, Cybersecurity, Data Spaces IIM Group (Immersive and Interactive Media) (Fernando Boronat / fboronat@dcom.upv.es / im.webs.upv.es/ / im@imMediaGroup) Media synchronization, XR, protocols (WebRTC, QUIC, RTP), QoS/QoE, gesture interaction, multisensory media PELLICAN Group (Jorge Martínez Bauset / jmartinez@upv.es) Business models in disruptive tech, resource management in networks, digital signal processing for comms and ultrasound <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Telecommunication PhD program
<p>DLA Departamento de Lingüística Aplicada Department of Applied Linguistics</p>	<p>Department of Applied Linguistics (DLA) https://dla.webs.upv.es/</p> <p>Director: Francisca Romero Forteza (fromero@upv.es) Contact - Subdirector Of Research: Teresa Molés-Casas (tmolcas@upv.es)</p> <p>RESEARCH LINES IN APPLIED LINGUISTICS</p> <ul style="list-style-type: none"> Computer-assisted Language Teaching Contrastive Linguistics Corpus Linguistics Cognitive Linguistics Didactic Discourse Analysis Gender Studies Language Teaching and Learning Pragmalinguistics Sociolinguistics Terminology Translation <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Master in Languages and Technology PhD Program in Languages, Literatures and Cultures and their Applications <p>FACILITIES</p> <ul style="list-style-type: none"> 4 multimedia classrooms (capacity: 15, 48, 40 and 32 people) Library Lecture hall Building: 4P https://dla.webs.upv.es <p>DLA Departamento de Lingüística Aplicada Department of Applied Linguistics</p>

Transporte y automoción

<p>IDF Instituto de Diseño para la Fabricación y Producción Automatizada Desing and Manufacturing Institute</p>	 <p>Desing and Manufacturing Institute (IDF) https://institutoidf.com/ Director: Juan Antonio Garcia-Manique (jugarcia@upv.edu.es) Contact: info@institutoidf.com</p> <div style="display: flex;"> <div style="flex: 1;"> <p>RESEARCH LINES/CAPABILITIES/FACILITIES</p> <ul style="list-style-type: none"> Adapted Vehicles and Transportation (AVT) Extended Reality (ER) Industrial Automation and Robotics (IAR) Information Technologies (CALS) Manufacturing (PF) Materials under Extreme Conditions (EXTREMAT) Optoelectronics and Semiconductors (GOPS) Product Design and Development (PDD) <p>CAPABILITIES</p> <ul style="list-style-type: none"> Automation of Manufacturing Processes/Additive Manufacturing Processes/Quality Control by Artificial Vision/Virtual and Augmented Reality Systems/Design and Manufacturing with Composites/Development of Optoelectronic Materials/Product Development </div> <div style="flex: 1;">  </div> </div>
<p>CMT Instituto Universitario de Investigación CMT Clean Mobility & Thermo fluids</p>	 <p>CMT - Clean Mobility & Thermo fluids www.cmt.upv.es/ / LinkedIn CMT / YouTube: @cmtinstitute Director: José Ramón Serrano Cruz (jserran@upv.es)</p> <div style="display: flex;"> <div style="flex: 1;"> <p>MAIN RESEARCH LINES</p> <ul style="list-style-type: none"> Power plant hybridization. Control strategies and optimization xEVs thermal issues, thermal management Battery thermal runaway xEVs acoustic issues Fuel cell power plants Continuous combustion process (GT) Hydrogen combustion: continuous/discontinuous e-fuels, oxy-fuels, and ammonia combustion process CO2 neutral oxy-fuel combustion Aerodynamics (Internal /External) Predictive maintenance optimization applying AI Control of energy systems Injection systems and sprays </div> <div style="flex: 1;"> <p>FACILITIES</p> <ul style="list-style-type: none"> Aerodynamic Research Service (SIA) - Wind Tunnel Advanced Hydrogen Engine Test Benches Anechoic Chamber Battery Laboratory Multifunctional altitude simulator - MEDAS <p>MASTER-PHD PROGRAMS</p> <ul style="list-style-type: none"> Professional Master: Master in Maintenance Engineering Scientific Master: Master in Propulsive Systems for a Sustainable Mobility Doctorate Programme: Propulsive Systems in Transportation </div> <div style="flex: 1;">  </div> </div>