

INTERNATIONAL POSTDOCTORAL PROGRAMME

MARIE SKŁODOWSKA-CURIE COFUND FELLOWSHIP






The IberusExperience Programme is an International postdoctoral Fellowship Programme promoted by the Consorcio Campus Iberus (www.campusiberus.es), which is the Campus of International Excellence of the Ebro Valley. IberusExperience will recruit in a single call **11 Experienced Researchers (ERs)** of any nationality to develop individual and freely selected research projects for **36 months** at one of the four recruiting universities based in northeastern Spain: University of Zaragoza, Public University of Navarre, University of Lleida, and University of La Rioja.

The fellowship programme is cofounded by Campus Iberus universities and the European Union's H2020 research and innovation programme under Marie Skłodowska-Curie grant agreement no 101034288.

The selection and recruitment process will follow the principles of the *European Charter for Researchers and the European Code of Conduct for the Recruitment of Researchers*. The recruiting universities, that hold or have adhered to the **Human Resources Strategy for Researchers – HRS4R** seal, will openly demonstrate their commitment to act in a responsible and respectable way and to provide fair framework conditions to the researchers.

RESEARCH AREAS OF THE PROGRAMME

The International Fellowship Programme for Talent Attraction to the Campus of International Excellence Campus Iberus – IberusExperience – will select **11 excellent Experienced Researchers** to develop individual and freely selected projects in **five areas** of research specialisation:

-  Agri-food and Nutrition.
-  Health Technologies.
-  Energy and Sustainability.
-  Social and Territorial Development.
-  Circular Bio-Economy.

The Campus counts with 35 active research clusters in these five areas of strategic specialization. They group in total more than 600 researchers from the 4 universities of Campus Iberus and over 90 non-academic research organisations and enterprises. It also offers an online international community of PhD researchers, called [Iberus Connect](#) to support your work and social integration.

IBERUSEXPERIENCE FELLOWSHIPS

Positions offered at each university

Campus Iberus University	No of fellowships
University of Lleida	4
Public University of Navarre	3
University of La Rioja	2
University of Zaragoza	2

The following principal researchers are looking for postdocs in their research area and university.

AGRI-FOOD AND NUTRITION

Ref.	University	PI Supervisor	Area; subarea	Key words
UR-JHB	University of La Rioja	Jesús H. Busto	Agricultural and Agri-food science; food science and technology. Chemical science and technology; chemistry	NMR applications; metabolomics; food microbiology; wine; fermentation; metabolites evolution and differentiation; quality biomarkers; microbial susceptibility analysis; food safety.
UR-AGM	University of La Rioja	Ana Gonzalez Marcos	Agricultural and Agri-food science; food science and technology. Chemical Science and Technology; chemistry.	Food disinfection using direct atmospheric pressure cold plasma; Mechanisms of microbial disinfection of cold plasma; Effects of cold plasma on food quality; Food functionalization using cold plasma; Food contact surface decontamination using cold plasma; Food disinfection using plasma activated water (PAW); Food packaging material processing and in-package food decontamination using cold plasma; Plasma-polymerized functional coatings; Security and safety of cold plasma treated food; Industrial scale-up of cold plasma technology; Data science; Machine learning.
UR-CT	University of La Rioja	Carmen Torres	Biomedicine; immunology, infection and new therapies. Agricultural and Agri-food sciences; Food science and technology, agriculture and farming.	Antibiotic resistance; OneHealth, Humans-Animals-Environment, Resistome and Virulome, Food Security; New Antimicrobials, Antibiotic Resistance Modelling; Antibiotic footprint.

UNIZAR-LMA	University of Zaragoza	Luis Moreno Aznar	Biomedicine; clinical medicine, organ and system pathophysiology.	Nutrition; physical activity; obesity; children; adolescents; growth; energy-dense foods; genetics and environment; OMICS; in vivo studies; molecular biology.
UPNA-CAI	Public University of Navarre	Cesar Arrese-Igor Sánchez	Agricultural and Agri-food sciences; agriculture and forestry.	Legumes; symbiotic nitrogen fixation; rhizobium; abiotic stress; ethylene; agriculture.
UDL-JR	University of Lleida	Jordi Recasens	Agricultural and Agri-food sciences; agriculture and forestry.	Sustainable systems of plant production and protection, Weed ecology , Sustainable agriculture practices, Integrated crop protection, Organic agriculture, Agroecology.
UDL-RS	University of Lleida	Robert Soliva	Agricultural and Agri-food sciences; Food Science and Technology.	Food technology; preservation; plant based products; pulsed electric fields; fruit juices; edible coatings; shelf-life extension; non-thermal food processing; organoleptic & nutritional properties; valorization of by-products; pilot plant trials.
UDL-GAS	University of Lleida	Gustavo A. Slafer	Agricultural and Agri-food Sciences; agriculture and forestry.	Crop ecophysiology; Mediterranean crops; physiological attributes; genetic bases for yield; betaglucans; crop improvement; extensive crops; barley; wheat.
UDL-JG	University of Lleida	Josep Galceran	Agricultural and Agri-food Sciences; agriculture and forestry.	Monitoring tools; nutrient management (P, N, K, Ca, Mg, micronutrients) crops, fertilization; predictive modelling; DGT/DET passive sampling; solute imaging techniques; rhizotrons; analytical methods (ICP-MS). Agronomy, Cropping technology, Soil-Crop-Atmosphere relationships.

HEALTH TECHNOLOGIES

Ref.	University	PI Supervisor (link to email)	Area; subarea	Key words
UR-FCL	University of La Rioja	Francisco Corzana López	Chemical Science and Technology; chemistry	Synthesis of glycopeptides; NMR experiments; molecular dynamic simulations; clinical applications; tumor detection; anticancer vaccines; unnatural antigens; MUC1-like glycopeptides; gold nanoparticles; biofunctionalised nanoparticles; antibody detection; nanoparticle-based vaccine development; mice experimentation.
UR-AGM	University of La Rioja	Ana Gonzalez Marcos	Agricultural and Agri-food science; food science and technology.	Food disinfection using direct atmospheric pressure cold plasma; Mechanisms of microbial disinfection of cold plasma; Effects of cold plasma on food quality; Food functionalization

			Chemical Science and Technology; chemistry.	using cold plasma; Food contact surface decontamination using cold plasma; Food disinfection using plasma activated water (PAW); Food packaging material processing and in-package food decontamination using cold plasma; Plasma-polymerized functional coatings; Security and safety of cold plasma treated food; Industrial scale-up of cold plasma technology; Data science; Machine learning.
UR-CDP	University of La Rioja	Cesar Dominguez Perez	Information and Communication Technologies; computer science and information technology.	Bioinformatics; machine learning; deep learning; algorithms; computer methods; analysis of digital bioimages; mathematical models; biomedical applications.
UR-CT	University of La Rioja	Carmen Torres	Biomedicine; immunology, infection and new therapies. Agricultural and Agri-food sciences; Food science and technology, agriculture and farming.	Antibiotic resistance; OneHealth, Humans-Animals-Environment, Resistome and Virulome, Food Security; New Antimicrobials, Antibiotic Resistance Modelling; Antibiotic footprint.
UR-FA	University of La Rioja	Fernando Antoñanzas	Economy; economy and its applications	Health economics; health care cost analysis; statistical analysis and modelling; informatics models of economic evaluation; chronic diseases; infectious diseases; antibiotics; antimicrobial resistance; epidemiology; life cycle models.
UPNA-IM	Public University of Navarre	Ignacio Matias	Information and Communication Technologies; microelectronics, nanotechnology and photonics.	Photonic sensors; biomedical devices; LMR – based optical waveguide sensing platform; detection of DNA or proteins; aqueous environment; Lossy Mode Resonance technology; optical resonators; microfluidic systems; EVs.
UPNA-IL	Public University of Navarre	Iñigo Lasa	Bioscience and Biotechnology; biotechnology.	Microbial pathogenesis; bacterial gene regulation; signal transduction; biofilms; Bap family proteins; exopolysaccharides; RNA transcription; biotechnology; molecular biology; genetic engineering.
UNIZAR-MR	University of Zaragoza	Martín Resano	Chemical Science and Technology; chemistry.	Atomic Spectroscopy; isotopic and elemental analysis; trace levels; biomedical applications; nanotechnology.

UNIZAR-JGB	University of Zaragoza	Javier Galbán Bernal	Chemical Science and Technology; chemistry.	Optical nano biosensors; enzymatic reactions; flavoenzymes; blood clinical parameters (glucose, lipids); continuous monitoring; hemeproteins; biogenic amines; nanomaterials (gold nanoparticles; nanoclusters); theoretical studies; signal modelling; data management; implementation in disposable devices (test strip, lateral flow systems) and smart packaging; digital image detection systems.
UDL-DAC	University of Lleida	Diego Arango del Corro	Biomedicine; Cancer	Molecular oncology; colorectal cancer; genetics; clinical trials; mouse models; patients; therapies; regorafenib; TAS102; predictive biomarker signatures; clinical implementation; microRNA predictors.

ENERGY AND SUSTAINABILITY

Ref.	University	PI Supervisor (link to email)	Area; subarea	Key words
UNIZAR-JC	University of Zaragoza	Joaquin Coronas	Chemical Science and Technology: chemical engineering.	Membrane materials (silicates; zeolites; MOFs, graphene); nanomaterials; hybrid materials (polymer/nanoparticle); energy-efficient separation; gas separation; nanofiltration; pervaporation; osmotic distillation; greenhouse emissions; water purification; micropollutants; gas separation (H ₂ /CO ₂ and CO ₂ /N ₂ mixtures); CO ₂ reduction; sustainability; economical rates; membranes scale-up.
UNIZAR-FFA	University of Zaragoza	Francisco J. Fernández Álvarez	Chemical Science and Technology; chemistry.	Homogeneous catalysis; organometallic compounds; sustainable chemical processes; hybrid catalysts; nanostructured materials; graphene oxide; carbon nanotubes; immobilized molecular catalyst (silica); chemical transformation of greenhouse gases; sustainability.
UNIZAR-MBN	University of Zaragoza	Maria Bernechea Navarro	Materials Science and Technology; materials for energy and environment.	Nanomaterials synthesis; photoactive organometallic complexes; nanostructured materials; composite materials; lighting; energy; photocatalysis.
UNIZAR-MHR	University of Zaragoza	Marta Haro Remón	Energy and Transport; energy.	Nanostructured electrodes; energy storage; solar energy conversion into electrochemical energy; light irradiation; supercapacitors; batteries; material science; nanoscience.

UNIZAR-EJP	University of Zaragoza	Emilio J. Juárez-Pérez	Materials Science and Technology; Materials for Energy and Environment.	Nanomaterials synthesis; novel catalysts; energy; environment; security; photocatalysis; solar cells and sensors; advanced microscopy analysis; energy harvesting and storage; perovskite solar cells.
UR-DSR	University of La Rioja	Diego Sampedro Ruiz	Chemical Science and Technology; chemistry.	Photochemistry; Molecular photoswitches; photoprotection; energy storage; light and matter interactions; solar energy storage; computational techniques; experimental process; functionalized chromophores; innovative plastics; thermal energy; indoor conditioning; industrial applications.
UDL-LFC	University of Lleida	Luisa F. Cabeza	Energy and Transport; energy.	Thermal energy; Energy engineering; sustainability; LCA; thermal energy storage; heat exchange; lab & pilot experiments; technology scale-up; modelling.
UDL-JO	University of Lleida	Jonàs Oliva	Agricultural and Agri-food Sciences; agriculture and forestry.	Community ecology; Forest pathology; High-throughput sequencing; Pathogenicity trials; Soil experiments; Soil microbiota; Climate change ; Response to drought.
UDL-CF	University of Lleida	César Fernández	Energy and transport; energy.	Artificial intelligence, intelligence control, control strategies, predictive control, deep-learning.
UDL-SDM	University of Lleida	Sergio de Miguel	Environmental science and technology; Biodiversity. Agricultural and Agri-food sciences; earth and water sciences, climate and atmosphere, environmental technology, agriculture and forestry.	Global forest; forest; ecology; management; disturbance; ecosystems; biodiversity; ecosystem services; fire; structure; open data; environmental and socio-economic impact; climate change; global change; remote sensing (airborne and satellite LiDAR, imagery); spatial analysis; data science; statistical modelling; artificial intelligence; big data; multiple scale (large scale to global level analysis); programming languages (R and Python).
UDL-GAS	University of Lleida	Gustavo A. Slafer	Agricultural and Agri-food Sciences; agriculture and forestry.	Crop ecophysiology; Mediterranean crops; physiological attributes; genetic bases for yield; betaglucans; crop improvement; extensive crops; barley; wheat.
UPNA-AG	Public University of Navarre	Antonio Gil	Chemical Science and Technology; chemical engineering.	Catalytic performance of metal nanomaterials, photocatalysis, pollutants removal, porous and surface properties of solids, nanoclays, gas adsorption, energy storage, environmental technologies, industrial waste valorization.

UPNA-IE	Public University of Navarre	Iñigo Ederra	Information and Communication Technologies; communication technologies	Electromagnetism; THz inspection; solar cells; radiative cooling; metamaterials; metasurfaces; parameter retrieval; energy applications; photovoltaic industry.
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SOCIAL AND TERRITORIAL DEVELOPMENT

Ref.	University	PI Supervisor (link to email)	Area; subarea	Key words
UR-SSR	University of La Rioja	Sylvia Sastre Riba	Mind, language and thought; linguistics and languages. Psychology. Educational science	Neuroconstruction; cognitive modelling; language use; human mind; linguistic expression; applied psychology; education.
UNIZAR-FBL	University of Zaragoza	Francisco Beltrán	Studies of the past, history and archeology.	Latin and Palaeohispanic epigraphy; ancient history of Hispania; Palaeo-European languages and epigraphic cultures; cultural heritage dissemination.

CIRCULAR BIO-ECONOMY

Ref.	University	PI Supervisor (link to email)	Area; subarea	Key words
UNIZAR-FFA	University of Zaragoza	Francisco J. Fernández Álvarez	Chemical sciences and technology; chemistry.	Homogeneous catalysis; organometallic compounds; sustainable chemical processes; hybrid catalysts; nanostructured materials; graphene oxide; carbon nanotubes; immobilized molecular catalyst (silica); chemical transformation of greenhouse gases; sustainability.
UDL-JO	University of Lleida	Jonàs Oliva	Agricultural and Agri-food Sciences; agriculture and forestry.	Community ecology; Forest pathology; High-throughput sequencing; Pathogenicity trials; Soil experiments; Soil microbiota; Climate change; Response to drought.
UDL-SDM	University of Lleida	Sergio de Miguel	Environmental science and technology; Biodiversity. Agricultural and Agri-food sciences; earth and water sciences, climate and atmosphere, environmental technology, agriculture and forestry	Global forest; forest; ecology; management; disturbance; ecosystems; biodiversity; ecosystem services; fire; structure; open data; environmental and socio-economic impact; climate change; global change; remote sensing (airborne and satellite LiDAR, imagery); spatial analysis; data science; statistical modelling; artificial intelligence; big data; multiple scale (large scale to global level)

				analysis); programming languages (R and Python).
UDL-GAS	University of Lleida	Gustavo A. Slafer	Agricultural and Agri-food Sciences; agriculture and forestry.	Crop ecophysiology; Mediterranean crops; physiological attributes; genetic bases for yield; betaglucans; crop improvement; extensive crops; barley; wheat.

EMPLOYMENT TERMS AND CONDITIONS

- 🌐 **3 years working contract full-time** (37,5 h/week).
- 🌐 Gross salary of **37.828 €/year**.
- 🌐 Researchers with family will receive a family allowance. This makes a total gross salary of **39.185 €/year** for researchers with family.
Family is defined as persons linked to the researcher by marriage (or in a relationship with equivalent legal status in the country where it was formalized) or children or economically dependent family member of the researcher.
- 🌐 Research budget of **28.800 €** (9.600 €/year) for research costs, trainings and networking.
- 🌐 Social health care included under the regime of Spanish Social Security System.
- 🌐 Vacation of 22 working days/year, besides 3 days of personal duties.
- 🌐 Maternity/paternity leave of 16 weeks.
- 🌐 Unemployment benefit of 12 months for the 3-year contract.
- 🌐 Contracts starting before **November 2022**.

ELIGIBILITY CRITERIA

Researchers from all nationalities can apply for the IberusExperience programme if they fulfill the following eligibility criteria:

- 🌐 The researcher must be an **Experienced Researcher**, meaning that they must be holding a PhD degree before the application deadline.
Periods of inactivity in research (e.g. unemployment, periods of employment outside research, parental or long-term sick leave) do not count as research experience.
- 🌐 The researcher must comply with the **mobility rule of the Marie Skłodowska-Curie Actions**: not have resided or carried out their main activity (work, studies, etc.) in Spain for more than 12 months in the 3 years immediately before the call deadline.

Further the information about special cases in the eligibility criteria and all the information about the application, as well as the evaluation and selection process is available at:

www.iberusexperience.com