Rules and Guidelines

1. Overview.

The Women for Africa Foundation is pleased to announce its 10th edition of the Science by Women program. This program, which is a fundamental pillar of the Foundation, aims to promote African women's leadership in scientific research and technology transfer to address key challenges facing Africa in areas such as health, agriculture, food security, water, energy and climate change.

It consists of a **6-month post-doctoral fellowship program** in collaboration with recognized Spanish Centers of Excellence, thus ensuring excellence in scientific research in various fields. Since its first edition, the program has involved 31 entities, benefiting more than 150 African women researchers.

Science by Women is based on the capacity of African women researchers to lead the continent's transition to an economy based on knowledge and innovation. It seeks to address the social, structural and economic barriers that limit their participation in science and technology in order to reduce the gender gap in these fields for the long-term progress and equitable growth of African countries.

In this edition, the program offers 23 fellowships in 21 research entities of excellence[1], thanks to the unwavering commitment of more than 30 program collaborators, including research entities, universities and public and private funders, such as the CSIC, the Government of the Canary Islands, the Provincial Council of Bizkaia, the Provincial Council of Gipuzkoa, the CSAI Foundation, Abertis Foundation, Fisabio Foundation and FUHNPAIN, among others.

[1] Please, refer to Annex 1: Spanish host research entities of excellence and research areas.

2. Application process and deadlines.

All applications must be submitted in **English** via the **Science by Women microsite** at: https://mujeresporafrica.es/9th-edition-science-by-women/science-by-women-application/

Before sending your application, check the general eligibility criteria bellow and Annex 1 at the end of these Rules and Guidelines for specific research entities' requirements.

Only 1 application per person is allowed and those applications that are sent through other means that are not the Women for Africa application form **will not be** accounted for. Beware that, to avoid duplicates, sign-in the microsite is necessary.

Deadline for applications is September 30, 2024 at 23:59h (Madrid time).

All applications must include the following documents:

- Motivation letter, with a maximum of 1 page.
- Full curriculum vitae, in Europass format, preferably, including at least 2 professional references and their contact information.
- Passport or ID document.
- Letter of support.

In this edition, you'll be allowed to apply to up to 3 different host centers. Each host center selected must include:

- Research proposal, brief and clear, with a maximum of 2 pages*.
- Proof of confirmation of the research proposal by the Spanish host entity of choice**.

**All research proposals must be related to the topics and line of research indicated by the Spanish host entity of choice. If you shall choose to apply to more than one (1) host entity, you must adapt the research proposal when appropriate.*

Some host institutions do not request a research proposal, but a letter of interest in the different options they offer. Please check Annex 1 for more information.

***All research proposals must be validated by the Spanish host entity. You will find the contact information of each host center in Annex 1. As proof of confirmation, you can upload a confirmation email, letter or any other document that shows their approval.*

3. General eligibility criteria.

The general conditions of eligibility to apply for the Science by Women program are as follows:

- Being a woman and having the nationality and residence in an African country.
- Holding a PhD in the sciences area of expertise.

- Having a contractual relationship with a university or a public or private organization based in Africa dedicated to scientific research.
- Excellent academic record and proven track of relevant research experience.
- Solid working knowledge of English. Proof of English language level will be positively valued.
- Only one application per person will be accepted.
- Beneficiaries of previous editions are not eligible.

**These are general requirements; host centers may require additional conditions to award the fellowship and carry out an internal selection processes with personal interviews and diverse evaluations.*

4. General conditions of the fellowship.

The period of enjoyment of the fellowship **depends on each host institution**, please check Annex 1 for the specifics. Generally, it is of **6 continuous months** to be completed within a period of enjoyment of 1 year and a half or 2 years from January 2025.

Successful candidates will have the following benefits:

- Monthly living allowance of 2600 euros gross per month. A 24% tax will be applied, leaving 1976 euro net. *This stipend is calculated based on the Spanish basic standard of living to cover, for one person only, accommodation*, maintenance support and health and emergency insurance. Please, check Annex 2 to beware of the standard living expenses.*
- Roundabout flights from their city of origin to their host city up to 1800 euro.
- Coverage of visa fees and any administrative or transportation costs derived from the visa application process up to 300 euro.
- Possibility of financial aid to participate in seminars or congresses during the period of the fellowship in Spain, after proper evaluation from the Science by Women program's team.

Beneficiaries must devote themselves entirely to research at the assigned research entity and may not be beneficiaries of any other fellowship, grant, stipend or regular income during their research stay.

Beneficiaries may be asked to formalize in writing their relationship with the research entity. In compliance with Spanish laws, the Women for Africa Foundation or the research entity (as the case may be) will withhold or retain, if required in each particular circumstance by the tax and/or social security system, the mandatory amounts of the subsistence allowance.

Women for Africa Foundation can only be responsible for supporting the administrative and logistic processes, as well as the economic aid, of the direct beneficiaries of the Science by Women program. Therefore, Women for Africa Foundation, nor the host center, are obliged to provide such support to any other person or relative of a beneficiary of the program.

All selected candidates of the Science by Women program are responsible for securing their own accommodation for the duration of the 6-month fellowship stay in their host city **1 month prior to their arrival. Some host centers have accommodation arrangements at the disposal of candidates, please check Annex 1 for further information.*

5. Selection process.

All applications will be subjected to a highly competitive selection process by the Women for Africa Foundation and its Scientific Committee, through which the following criteria will be evaluated:

- The candidate's research career, curriculum vitae and experience.
- How does your experience fit into the research topic of the receiving research team.
- The project's scientific-technical quality and innovative potential.
- The expected and measurable economic or social impact of the research project.
- The candidate's plan to communicate and disseminate the project's results.
- The proper consideration of ethical issues where appropriate.

Successful applicants will present innovative research projects that respond to the needs of the African continent and that are likely to be transferred to products or patents for commercial exploitation, or services and public policies that have a social impact in terms of well-being and quality of life of people, and the economy, productivity and competitiveness of companies.

Host centers may carry out, after pre-selection by the Women for Africa Foundation, their own internal process of evaluation of candidates, which might include personal interviews and examinations.

6. Decision and publication of final selection.

Each Spanish host center will make the final selection of its candidate.

The list of finalists will be published by November 29th, 2024.

After notification, selected candidates will have **thirty (30) days to formally accept the fellowship** and send the required information to the Science by Women program's team and the host center.

Successful candidates are expected to start their research stays at the assigned host centers from **January 2025 onwards**, but never earlier than such date.

Important: *The awarding of the fellowship is determined by the host centers of scientific research. If no candidate meets the criteria, the fellowship may remain unfilled for this year's edition. Additionally, though it is rare, internal affairs at the host center may lead to the cancellation of the fellowship even after it has been granted.*

7. Science by Women fellows' commitments.

The selected candidates of the Science by Women program fellowship undertake to

- Obtain a formal approval of institutional leave from their organization.
- Secure accommodation for the six-month duration of the fellowship at least one month prior to their arrival in Spain. Proof of accommodation must be provided to both the host center and the Science by Women program team. Failure to meet this requirement will result in a postponement of the fellowship start date by up to one month. If accommodation is not secured within this additional month, the fellowship will be automatically revoked and awarded to the next candidate.
- Maintain continuous and open channels of communication with both the host center and the Science by Women program team at all times. If there is no response within 15 days of initial contact, the fellowship may be subject to revocation.
- Familiarize themselves with the cultural and living conditions of the host city where they will be residing. This includes understanding the available means of transportation, local eating habits, cultural norms, and typical weather conditions. For any additional concerns or inquiries, fellows can consult the Science by Women program team or the host center team.
- Cover their personal expenses, when necessary, especially during the first weeks in Spain while they manage to open a working bank account.
- Respect and comply with the internal academic and legal regulations of the Spanish host center.
- Submit a brief report on the research stay and personal experience to Women for Africa Foundation, as late, 30 days after departure from Spain.
- Complete two evaluation surveys: mid-stay and end-stay, so that Women for Africa Foundation can evaluate the results and, if necessary, introduce modifications and improvements to the fellowship program.
- Authorize Women for Africa Foundation and the Spanish host center to make full or partial use, on their website or in any of their publications, of the contents of the report submitted at the end of the fellowship and any other audiovisual or written material produced during the period of the fellowship.

Beneficiaries of the Science by Women fellowship program will become part of the N.O.W is Africa Network and will be invited to participate in follow-up, exchange and training activities (mentoring, coaching, peer support, etc.) organized within the framework of the program to ensure the sustainability of its impact.

Disclaimer: The awarding of fellowships does not create any statutory or employment relationship with the Women for Africa Foundation. All obligations between the Women for Africa Foundation and the successful applicants end on the date of end of the fellowship.

8. Science by Women program and Host Center commitments.

The Science by Women program team undertakes to

- Publish the results of the selection process by the stipulated due date.
- Maintain open and clear communication channels with the selected candidates.
- Facilitate the visa application process for the selected candidates by providing necessary logistical and administrative support. *Beware visa application processes can extend up to 2 months*.
- Cover the selected candidates' expenses related to their stay, including visa application fees, round-trip travel from their place of origin, and a monthly stipend. This can be done either directly or through reimbursement.
- Evaluate and financially support fellows' proposals for participation in seminars, congresses, or other professional development opportunities during their fellowship period in Spain, contingent upon approval.
- Collaborate with the host center to provide support in resolving any doubts or issues that may arise during the fellowship period promptly.
- Publish and promote the selected candidates' achievements and publications to enhance their professional profiles.

The host center undertakes to

- Facilitate the integration of fellows into the host center through the means necessary to ensure a smooth transition.
- Provide access to research facilities, laboratories, and necessary materials to support the fellows' research activities.
- Assign qualified mentors or supervisors to guide the fellows' research projects and provide regular feedback and support.
- Encourage and facilitate the fellows' participation in seminars, workshops, and conferences relevant to their field of study.

Both parties are not obliged to any other responsibilities different from those stated in these Rules and Guidelines.

9. Results and dissemination of the research projects.

The Intellectual and Industrial Property (IP) generated by the beneficiaries throughout the stay at the host entity will be regulated by the same terms and conditions that apply to the IP generated by the research staff of the host entity. The submission of applications implies that the beneficiaries of the grant to the Women for Africa Foundation and the host entity, in consideration of the benefits set out in paragraph 3, the right to publish and disseminate the results of the chosen research projects in all forms (including, but not limited to in the form of working papers, electronic documents and books) and in all territories, without prejudice to publications in scientific journals chosen by the researchers, which in any case must mention the support received by the Women for Africa Foundation and the collaborating research entity.

9. Privacy and data management policy.

For information on the Women for Africa Foundation's privacy and data management policy, please see the following link.

10. Contact.

If there are any doubts, it is very important that you consult the Frequently Asked Questions to resolve your doubts.

IMPORTANT: The Science by Women program's team will not respond to queries that are resolved in those sections.

For truly urgent questions that are not resolved in the previous sections, you can send an email to: science.by.women@mujeresporafrica.es

ANNEX 1: SPANISH HOST RESEARCH ENTITIES OF EXCELLENCE AND RESEARCH AREAS

BARCELONA SCHOOL OF ECONOMICS (BSE)

Period of enjoyment: from January 2025 to November 2026.

Location: Ramon Trias Fargas, 25-27, 08005, Barcelona, Spain.

Webpage: https://bse.eu

The Barcelona School of Economics is an institution for scientific cooperation in research and graduate education in economics and social sciences, and draws on the strengths and noteworthy reputations of its four academic units.

Research proposals sent to BSE must be related to:

- Macroeconomic & Microeconomic Challenges for Development
- Economics and politics of conflict
- Private and social returns to education and education policies
- Financial markets and regulation.
- Firm structure, innovation and growth
- International trade and globalization
- Fiscal policy, tax structure and infrastructure investment
- Economic impact of health and health policies
- Migration flows and migration policies

Please note that, depending on the research project's proposal, data must be gathered by the selected candidate and validated before arrival in Spain.

To obtain the proposal's approval, please email: director@bse.eu

**The Barcelona School of Economics does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

MATERIAL PHYSICS CENTER (MPC-CFM)

Period of enjoyment: from January to December 2025, preferably within the months of April-November 2025.

Location: Paseo de Manuel Lardizabal, 5, 20018 Donostia-San Sebastián, Gipuzkoa, Spain.

Webpage: https://cfm.ehu.es/es/

Material Physics Center is a center created to foster international excellence in advanced materials nanoscience fundamental research. MPC-CFM research activity covers electronic, magnetic, optical and dielectric properties of condensed and soft matter systems, as well as surfaces and nanostructured architectures. Physical and chemical properties of materials and molecular assemblies are addressed by analysing their properties at the nanoscale. This is carried out by following a two-fold strategy, which consists of theoretical and experimental research methods that target the study of nanoscale properties of matter.

Research proposals sent to MPC-CFM should relate to its four main lines of research:

I. Chemical Physics of Complex Materials
II. Electronic Properties at the Nanoscale
III. Photonics
IV. Polymers and Soft Matter.

This year's researcher should work in the polymers and soft matter lines, and in particular in the quantum beams and sustainable materials group. This group makes extensive use of beams of quantum particles like neutrons or photons in tandem with computational materials modelling to interrogate, understand, and design novel functional materials for energy applications and sustainability.

This research program is underpinned by the development of new techniques and methodologies for materials discovery, in close collaboration with leading neutron and X-ray laboratories from around the globe. Current areas of focus include hybrid organic-inorganic materials for photovoltaics & photonics, or carbon-based nanostructured media for the storage of chemical and thermal energy.

To obtain the proposal's approval, please email: projects.mpc@ehu.eus and mpc@ehu.eus

**The Material Physics Center provides support in finding accommodation, usually within a residential building, only for the selected candidate.*

INSTITUTE OF PHOTONIC SCIENCES (ICFO)

Period of enjoyment: from January 2025 to November 2026.

Location: Mediterranean Technology Park, Avinguda Carl Friedrich Gauss, 3, 08860 Castelldefels, Barcelona, Spain.

Webpage: https://www.icfo.eu

The Institute of Photonic Sciences (ICFO) is specialized in the science and echnology of harnessing light as a pervasive and universal tool that benefits health, energy, information as well as safety, security and environment.

Research proposals sent to ICFO must be related to:

- Light for Health: medical devices for diagnosis, healthy food, advanced imaging
- Light for Environment: solar energy, new materials, carbon capture, environmental sensors
- Light for Information: telecommunications, quantum information, laser technologies
- Light-based technologies for industrial processes

At ICFO, all research groups are open to receiving fellows. Therefore, candidates must select the team to which they will submit their proposal, ensuring it aligns with their area of expertise. Information about the research groups and their contact can be found at the following link: https://www.icfo.eu/es/investigacion/grupos-investigacion/

For general inquiries or guidance on which group to choose, candidates may contact: ktt@icfo.eu

**ICFO does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

BASQUE CENTER FOR MACROMOLECULAR DESIGN AND ENGINEERING – POLYMAT FUNDAZIOA (POLYMAT)

POLYMAT
Basque Center for
Macromolecular Design and Engineering

Period of enjoyment: from January 2025 to November 2026.

Location: University of the Basque Country UPV/EHU, Centro Joxe Mari Korta Center Tolosa Avenue, 72, 20018, Donostia-San Sebastián, Spain.

Webpage: https://www.polymat.eu

Basque Center for Macromolecular Design and Engineering, POLYMAT Fundazioa is a research center of international excellence located in Donostia-San Sebastian linked to the University of the Basque Country UPV/EHU.

Research focuses on the fundamental investigation in Key Technologies (polymer synthesis, polymer physics, assembly and processing, and theory and simulations) which are applied to 21st Century Challenges (energy, health care, and sustainability).

Research proposals must be related to the following research lines of multidisciplinary research:

- Polymers and Energy
- Polymers and Sustainability
- Polymer Physics and Advanced Manufacturing
- Molecular and Supramolecular Materials
- Polymers for Health
- Polymerization Engineering and Simulation

To obtain the proposal's approval, please email: idoia.azaldegui@polymat.eu

**POLYMAT offers support in finding accommodation, only for the selected candidate, usually within residential buildings or student residences. Those that deny this option must secure their own option for accommodation and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUTE OF HEALTH CARLOS III (ISCIII)

Period of enjoyment: from January 2025 to November 2026.

Location: ISCIII has different possible locations, depending on the research group.

Webpage: https://www.isciii.es/Paginas/Inicio.aspx

The Institute of Health Carlos III is the main implementing agent of the Spanish Health Science, Technology and Innovation System. The performing R&I activities done by ISCIII is carried out through its national centers, institutes and research units by contributing decisively to preserving the health of all citizens.

Within the framework of the Science by Women program, ISCIII is committed to support:

- projects targeting infectious diseases that disproportionately impact impoverished and vulnerable populations, including tuberculosis, malaria, and neglected tropical diseases (NTDs).
- initiatives aimed at addressing malnutrition and food insecurity, that increase vulnerability to infectious diseases in marginalized communities.

These projects are expected to contribute to the overarching global objective of alleviating the burden of these diseases and should align with WHO roadmaps. Cross-disciplinary endeavors that integrate human, animal, and environmental health disciplines are encouraged, fostering comprehensive approaches to addressing these complex health challenges.

All candidates must obtain from their host a letter of acceptance. To obtain the proposal's approval, please email: cruzi@isciii.es

**ISCIII does not provide accommodation within campus. Selected candidates can find accommodation through Homy Space agency or Resa residences. Those that deny these options must secure their own option for accommodation and inform both parties, at least, 1 month before arrival in Spain.*

**This institution offers 3 fellowship spots.*

DEUSTO INSTITUTE OF TECHNOLOGY (DeustoTech)

Period of enjoyment: From January 2025 to June 2026.

Location: Facultad de Ingeniería, Avda. Universidades, 24, Bilbao (Bizkaia), 48007, España.

Webpage: https://deustotech.deusto.es/

Deusto Institute of Technology (DeustoTech) is the Technology Research Institute at the University of Deusto. It conducts research in areas such as Artificial Intelligence, Edge Computing, Materials Engineering and Engineering of Simulation and Modelling applied to different sectors such as Industry, Mobility and logistics, Energy, Circular Economy, Health and Societal Challenges.

DeustoTech is structured in 7 different research groups specialized in the areas of:

- Ubiquitous computing; remote experimentation and computational thinking; disruptive technologies of hybrid computational intelligence; distributed and decentralized computing aimed at solving social challenges.
- Vehicular communications and cooperative systems; artificial intelligence applied to route/service optimization and traffic prediction; services based on positioning; transportation and intelligent mobility.
- Applied computational intelligence in industry, industrial Cybersecurity, cognitive robotics, Quantum technologies, sustainable and ethical Artificial Intelligence, Natural Language Processing.
- Analysis and processing of biomedical, biological, and food signals; telemedicine, telemonitoring and telecare for health and quality of life; technological solutions for the promotion of physical activity, sports and nutrition; serious games as therapy and social insertion
- Circular economy and the sustainable use of resources; behavioral modeling for the energy and social transition; modeling, optimization and control of industrial processes; digitization of processes and services.
- Structural analysis and advanced materials characterization; analytical and numerical modeling; experimental mechanics; vibration, control and isolation; additive manufacturing.
- Culture, design management and strategy; design for social innovation, ecodesign, accessibility, IoT, prospecting and trends; new design methodologies and tools; digital manufacturing.

Research proposals presented to DeustoTech must be related to the areas aforementioned and the following sectors:

Energy & Circular Economy:

This application area aims to design ITC-based solutions that will allow to move towards more sustainable and efficient environments and cities, working collaborately with companies and public administrations. Our scientific-technological capabilities include: environment, smart grids for the supply and management of urban services, and advanced maintenance and operation systems.

Mobility and transport:

This application area focuses on ICT research applied to transport, mobility of people and logistics. Our transfer activity related to the development ITS Intelligent Transport Systems and Smart Mobility Platforms, contributes to making the mobility of individuals and objects more sustainable, smarter and more comfortable. Our scientific-technological capabilities include: soft computing applied to ITS, smart mobility and seamless positioning systems.

Industry 4.0 and Logistics:

This application area is focused on transformation into a digital, smart and safe industry. We question the state of the art in order to meet the challenges faced by industry in its transformation towards a more sustainable and competitive model. Our scientific-technological capabilities include: industrial data analytics, cyberphysical systems, industrial design, advanced manufacturing, advanced materials and digitalized supply chain management.

Societal Challenges, Health and Learning:

This application area aims at using basic and applied research to make ICTs available to society and citizens, and contribute to building a better world. Our scientific/technological capabilities are: heterogeneous data management, IoP (Internet of People) and artificial intelligence for health and well-being.

To obtain the proposal's approval, please email: ainhoa.alonso@deusto.es

**DeustoTech offers support in finding accommodation, only for the selected candidate, in university or researchers' residential buildings. Those that deny this option must secure their own option for accommodation and inform both parties, at least, 1 month before arrival in Spain.*

BIOBIZKAIA HEALTH RESEARCH INSTITUTE (IIS BIOBIZKAIA)

Period of enjoyment: from September 2025 to May 2026.

Location: ISCIII has different possible locations, depending on the research group.

Webpage: https://www.biocrucesbizkaia.org

Biobizkaia Health Research Institute is a Health Research Institute of Bizkaia Region. It was established in 2008 and it aims to promote, unite and support the research groups to develop a quality translational research and enhance the effective innovation and collaboration with other organizations; all this in order to provide new tools, practices, and knowledge to contribute to the improvement of health care, population health, wealth creation, and economic development. Five important organisations in the Basque Country (Health Department of the Basque Government, Public Health Provider Organization (OSA), Basque Public University and Basque Foundation for Health Innovation and Research (BIOEF) and Foundation BBK.

The legal agreement between IIS Biobizkaia and the Basque Health System in fact provides the framework for the cooperation between the two institutions, with the goal of translating research results into medical practice. There are close to 900 professionals with complementary basic and clinical profiles divided into more than 60 research groups. BBHRI is taking part in close to 150 clinical trials and offers a long-running close relationship with the University of the Basque Country and other hospitals of the Basque Country.

Research proposals must be related to the **"Biomedical engineering, Bioprinting and 3D"** research group, led by Dr. Isabel Andia. This group works on the following areas:

- Autologous therapies (PRP) in joint pathologies: osteoarthritis and chondroplasties.
- Autologous therapies (PRP) in tendon pathology.
- Cell therapy in joint and tendon pathology: mesenchymal fat cells Biology of platelet-rich plasmas (PRPs).
- Modulating effect of PRP on inflammation.
- Modulating effect of PRP on angiogenesis.
- Effect of PRP on cell activation (fat mesenchymal, tendon cells, synovial cells).
- Study of immunohistochemically, genetic and molecular cytogenetic markers in biopsies from patients with soft tissue sarcomas: diagnostic utility, relationship with prognosis and applicability in the monitoring of minimal residual disease.
- Prevention of postoperative bleeding in massive resection surgery of bone tumors: Multicenter, randomized, open-label, parallel clinical trial with three treatment arms, evaluating the efficacy of topical tranexamic acid versus topical Evicel® and usual hemostasis.

To obtain the proposal's approval, please email: *IRATXE.CIRIZAERENO@bio-bizkaia.eus*

**ISS Biobizkaia offers support in finding accommodation, only for the selected candidate, in the researchers' residential buildings of Bizkaia Talent: BBK Talent Home. Those that deny this option must secure their own option for accommodation and inform both parties, at least, 1 month before arrival in Spain.*

THE FOUNDATION FOR THE PROMOTION OF HEALTH AND BIOMEDICAL RESEARCH OF THE VALENCIAN COMMUNITY (FISABIO)

Period of enjoyment: from January 2025 to November 2026.

Location: Av. de Catalunya, 21, Benimaclet, 46020 València, Valencia

Webpage: https://fisabio.san.gva.es/es/

The Foundation for the Promotion of Health and Biomedical Research of the Valencian Community a non-profit scientific organization, whose primary purpose is to promote, develop and execute research and innovation in the health and biomedical sciences.

Within the FISABIO Foundation, FISABIO-Public Health is a research center that specifically responds to the need to delve deeper into various areas of scientific knowledge in the broad field of public health. FISABIO-Public Health is a unique center in this field since it combines experimental research with research in various areas of epidemiology. This combination allows for the creation of synergies between multiple areas of knowledge, generating multidisciplinary approaches to public health problems.

FISABIO-Public Health will offer the successful candidates training and learning of specific skills within its Genomics and Health Area. Genomics and Health investigates microorganisms of interest to human health, with the aim of proposing guidelines for action in relation to pathogens, epidemic outbreaks and diseases related to the alteration of the human microbiome. To this end, it develops and applies new methods of genomic, metagenomic, epidemiological and evolutionary analysis.

In particular, candidates will be able to integrate within one of the following research lines:

- Compositional and functional development of the human microbiome and associations with disease
- Vertical transmission of microorganisms from mother to child
- Influence of diet and prebiotic compounds on the gastrointestinal microbiome
- Determinants of vaginal microbiome composition and associations with gynecological health

To obtain the proposal's approval, please email: mpfrancino@gmail.com and andres.moya@uv.es / andres.moya@fisabio.es .

**FISABIO does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUTE FOR NEUROSCIENCES (IN)

Period of enjoyment: from January 2025 to November 2026.

Location: Av. Santiago Ramón y Cajal s/n, 03550 San Juan de Alicante, Alicante.

Webpage: https://in.umh-csic.es/es/

Institute for Neurosciences' mission is to achieve a fundamental understanding of the development, structure and function of the nervous system under normal and pathological conditions. Our research will contribute to a society with fewer mental and neurological disorders, healthier aging and fulfilling lives.

Research proposals sent to IN must be related to:

- Building and adapting circuits into functional neural networks
- Cellular plasticity in brain disease and repair
- Genetic and epigenetic bases of individuality and aging
- Human cognition and behavior
- Neural stem cells regulation and differentiation
- Neurobiology of pain and inflammation
- Synaptic modulation of neural circuits and behavior
- Translational research of neurological and psychiatric disorders

To obtain the proposal's approval, please email: jbarbas@umh.es

**IN does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

SPANISH NATIONAL CANCER RESEARCH CENTER (CNIO)

Period of enjoyment: From January 2025 to November 2026.

Location: C/ Melchor Fernández Almagro, 3. 28029 Madrid.

Webpage: https://in.umh-csic.es/es/

Spanish National Cancer Research Center is an international cancer research center of excellence is an international cancer research center of excellence. Research is organized into different areas: basic research (Molecular Oncology, and Structural Biology); patient-oriented translational research (Cancer Genomics and Clinical Research); and innovation (Biotechnology and Experimental Therapeutics).

Research proposals presented to CNIO should be focused on basic research, generating knowledge and discoveries that can advance the fields of molecular oncology, structural biology and biocomputing.

To obtain the proposal's approval, please email: formacion@cnio.es

**CNIO does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUTE FOR SUSTAINABLE AGRICULTURE (IAS)

Period of enjoyment: From January 2025 to November 2026.

Location: Avenida Menéndez Pidal s/n, Campus Alameda del Obispo, 14004 Córdoba.

Webpage: https://www.ias.csic.es/

Institute for Sustainable Agriculture aims at making agricultural profitability compatible with resilience against global changes, with the optimization and preservation of resources such as soil and water, and with the promotion of biodiversity on different scales, as well as at translating the results into innovations that benefit society. The IAS covers agronomy, crop breeding and crop protection profiting from modern tools and methodologies tested in Europe and Africa.

Research proposals presented to IAS should be focused on

- Development of management systems and technologies that optimize the conservation and efficient use of resources, mainly soil and water. Efficient use of water in irrigated agriculture systems under water scarce conditions. Use of models and remote sensing to facilitate sustainable management of agricultural systems.
- Crop breeding for resistance to biotic and abiotic stresses. Promotion of biodiversity in agriculture through conservation and enhancement of plant genetic resources. Development of cultivars with enhanced qualities oriented to the market demand.
- Development of up-to-date diagnose methods and biocontrol tools based on an accurate knowledge of plant-microorganisms' interactions. Exploitation of plant-associated microbiome. Disease modelling and development of sustainable control approaches based on Integrated Pest Management that are embedded in circular economy agriculture strategies.
- Co-designing cropping systems for improving food security, land and water productivity, soil quality and climate change mitigation in Africa. Analysis of strategies for the adaptation of agriculture systems to future scenarios of climate change. Development of innovative and environmentally friendly strategies for the integrated management of pests, diseases and weeds.

Candidates can consult the different Research Groups in the following link: https://www.ias.csic.es/departments/?lang=en for identifying potential host ones according to your background and project idea.

For general inquiries or guidance on which group to choose, candidates may contact: contact@ias.csic.es

**IAS does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUTE OF ASTROPHYSICS OF THE CANARY ISLANDS (IAC)

Period of enjoyment: From January 2025 to June 2026.

Location: C/ Vía Láctea, s/n E-38205 La Laguna – Tenerife, España.

Webpage: https://www.iac.es/en/

Institute of Astrophysics of the Canary Islands is a science and technology center dedicated to research in astronomy and astrophysics. It is a public consortium made up of the Central Administration (Ministry of Science and Innovation), the Canary Islands Autonomous Community, the University of La Laguna and the Higher Council for Scientific Research. The IAC's mission is to perform excellent research and technological developments in astrophysics, securing the appropriate training of graduate students, young researchers and engineers, promoting outreach and technology transfer in many different areas and fostering a fruitful and stable environment of international collaboration.

The IAC aims to achieve major advances in the understanding of the laws that govern the origin and evolution of the various forms of matter/energy in the Universe. The center aims to use a large variety of cutting-edge ground/space facilities and attract new very talented young/senior researchers to develop advances and breakthroughs in physical modelling, computer simulations and technology. The IAC hosts and operates two astrophysical observatories on the Canary Islands of Tenerife and La Palma, where more than 40 telescopes and telescopic installations are run by institutions from a large number of countries, including the world´s largest optical and infrared telescope currently in operation.

Research proposals presented to IAC should be focused on

- The magnetism and dynamics of the Sun.
- The diversity of planetary systems.
- The physics of Stars and the Interstellar Medium.
- Milky Way and Local Group galaxies
- The evolution of galaxies across cosmic times
- Very High Energy Astrophysics and Cosmology.

To obtain the proposal's approval, please email: corinv@iac.es

**IAC does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

OCEANIC PLATFORM OF THE CANARY ISLANDS (PLOCAN)

PLOCAN
Plataforma Oceánica de Canarias

Period of enjoyment: From January 2025 to December 2025.

Location: Carretera de Taliarte s/n (Faro), 35200, Telde, Gran Canaria, España.

Webpage: https://plocan.eu/

The Oceanic Platform of the Canary Islands is a Unique Scientific-Technical Infrastructure (ICTS) whose mission is to promote the development of knowledge and technologies for the responsible and sustainable use of the ocean. PLOCAN offers offshore and on land infrastructures to test new technologies, materials, concepts or methodologies, providing services to users in the public and private sectors.

It comprises a fixed offshore platform with a net area of 2,500 m2 located near the coast at a depth of 30 m; a test site with an area of 23 Km2 that offers progressive depths from the coast to 600 meters, and constitutes an optimal ecosystem in terms of data, operational models, logistics, compatible infrastructures and connection to the electricity grid; an electrical and communications infrastructure for evacuation of the energy produced during the experimental tests; a base of autonomous underwater vehicles; an observatory aimed at monitoring global change processes, ocean health, exploration and environmental monitoring of the marine environment and biodiversity; and an onshore headquarters with workshops and laboratories.

Research proposals presented to PLOCAN should be focused on

- Acoustics thematic area: "To process, document and prepare acoustic data for noise and bioacoustic measurements" (Matlab or python language very good skills required)
- Ocean sensor thematic area: "To optimise real-time embedded processing algorithm for event detection on an ocean sensor" (very good C language expertise required)
- Ocean data management thematic area: "To develop algorithms in Python for the preparation and formatting of oceanographic data and metadata" (python language skills required)

To obtain the proposal's approval, please email: josefina.loustau@plocan.eu

All candidates must have the skills and knowledge necessary to carry out the research proposal before their arrival to PLOCAN.

**PLOCAN does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

BIOMEDICAL AND HEALTH RESEARCH INSTITUTE (IUIBS-ULPGC)

ULPGC Instituto Universitario de Investigaciones Biomédicas y Sanitarias

Period of enjoyment: From January 2025 to June 2026.

Location: Paseo Blas Cabrera Felipe "Físico" (s/n), 35016 - Las Palmas de Gran Canaria.

Webpage: https://www.iuibs.ulpgc.es/

Biomedical and Health Research Institute (IUIBS) at the University of Las Palmas de Gran Canaria (ULPGC) concentrates the University research in the fields of biomedicine, biotechnology, biomedical technology, hospital systems and public health, with the participation of university and hospital research groups and a wide array of external collaborators. Among its many areas of activity, the Institute hosts the Medical Technology for Sustainable Development effort, a multidisciplinary program with collaborators across the World to bring affordable advanced medical technology to all.

Research proposals presented to IUIBS-ULPGC should be focused on research undertaken in the different research groups affiliated to the Institute. For more information visit:

- Nutrition: https://www.iuibs.ulpgc.es/en/investigacion/iuibs-nutrition
- Diabetes and Applied Endocrinology: Our group arose from the mission to improve quality of life for persons with diabetes and other endocrine diseases in our environment. https://www.iuibs.ulpgc.es/endocrinologia/
- iUIBS – Environment and Health: https://www.iuibs.ulpgc.es/en/investigacion/iuibs-environment-and-health
- iUIBS – Medical Pathology: https://www.iuibs.ulpgc.es/en/investigacion/iuibs-medical-pathology
- iUIBS – Medical and Visual Technology: https://mt4sd.ulpgc.es/es/
- iUIBS - Human Performance, Physical Exercise and Health: https://www.iuibs.ulpgc.es/en/investigacion/iuibs-human-performance-physical-exercise-and-health
- iUIBS - Molecular and Translational Pharmacology - ULPGC Biopharm: https://www.iuibs.ulpgc.es/web-grupos/biopharm/
- iUIBS - Pharmacological Biochemistry: https://www.iuibs.ulpgc.es/en/investigacion/iuibs-pharmacological-biochemistry
- iUIBS - Veterinary Medicine and Therapeutic Research: https://medicinaveterinaria.ulpgc.es/

- iUIBS - Infectious, Nutritional and Inflammatory Conditions in Hospital Patients: https://www.iuibs.ulpgc.es/en/investigacion/iuibs-infectious-nutritional-and-inflammatory-conditions-hospital-patients

- iUIBS - Trypanosomosis, Resistance to Antibiotics and Animal Medicine, Resistance to antibiotics in bacteria of human, animal and environmental origin. Study of Trypanosomosis in ruminants and camelids. We have developed the generation of nanoantibodies in dromedaries. Clinical treatment of domestic and wild animals. https://www.iuibs.ulpgc.es/en/investigacion/iuibs-trypanosomosis-resistance-antibiotics-and-animal-medicine

To obtain the proposal's approval, please email: juan.ruiz@ulpgc.es and jorgelorenzo.freixinet@ulpgc.es , with silvia.munoz@ulpgc.es in copy

**IUIBS-ULPGC does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUT DE CIÈNCIA DE MATERIALS DE BARCELONA (ICMAB)

Period of enjoyment: From January 2025 to November 2026.

Location: Universitat Autònoma de Barcelona, Campus de la, Carrer dels Til·lers, s/n, 08193 Bellaterra, Barcelona.

Webpage: www.icmab.es

Institut de Ciència de Materials de Barcelona is an institute of the Spanish National Research Council (CSIC), the largest public institution dedicated to research in Spain and the third largest in Europe, whose main objective is to develop and promote basic and applied research. ICMAB is a multidisciplinary research center focused on cutting-edge research in functional advanced materials in the fields of ENERGY, ELECTRONICS and NANOMEDICINE, with the aim of generating new knowledge and transferring it to society and industry. It is located at the Campus of the Universitat Autònoma de Barcelona, surrounded by other research and technological centers and with access to many state-of-the-art equipment and scientific facilities.

ICMAB is one of the top research institutions labeled as “Severo Ochoa Research Centre”, a distinction that recognizes excellence at the highest international level in terms of research, training, human resources, outreach and technology transfer.

Research lines and contact hosts for proposals for this year’s call for applications are

- Molecular simulation for health challenges
  Host: Dr. Jordi Faraudo jfaraudo@icmab.es
  https://icmab.es/faraudo-gener-jordi-permanent-researchers

- Organic materials for energy
  Host: Prof. Mariano Campoy mcampoy@icmab.es
  https://icmab.es/campoy-quiles-mariano-permanent-researchers

- Materials for energy
  Host: Dr. Enykö György egyorgy@icmab.es
  https://icmab.es/laserprocessing

- Oxide materials for electronics
  Host: Dr. Can Onur Avci cavci@icmab.es
  https://spinmad.icmab.es/

- Molecular electronics
  Host: Prof. Nuria Aliaga naliaga@icmab.es
  https://icmab.es/aliaga-alcalde-nuria-permanent-researchers

- Sustainable molecular systems
  Host: Prof. David Amabilino amabilino@icmab.es
  https://icmab.es/amabilino-david-brian

All candidates must obtain proof of validation of their proposal from one of the aforementioned group leaders.

**ICMAB offers support in finding accommodation, only for the selected candidate, in university or researchers' residential buildings. Those that deny this option must secure their own option for accommodation and inform both parties, at least, 1 month before arrival in Spain.*

SPANISH NATIONAL CENTER OF BIOTECHNOLOGY (CNB)

Period of enjoyment: From January 2025 to November 2026.

Location: C. Darwin, 3, Fuencarral-El Pardo, 28049 Madrid.

Webpage: https://www.cnb.csic.es/index.php/es/

Spanish National Center of Biotechnology is located in Madrid and forms part of the Spanish National Research Council (CSIC). The center stands out for its broad and interdisciplinary approach, combining gene-based technologies with frontier research in computational, structural, immunology, oncology, cell and synthetic biology, to discover novel biological entities, decipher their functional interplay in individual organisms and larger communities, ranging from virus and bacteria to plants, animals and humans. As well as understanding the molecular basis of mammalian gene expression and control of cell processes in normal and pathological conditions.

Research proposals presented to CNB should be focused on:

- Microbial Biotechnology. Microbiologists at the CNB aim at gaining knowledge on key aspects of microbial biology with environmental, clinical or biotechnological relevance through approaches that include molecular genetics, genomics, proteomics, metagenomics and synthetic biology. The subjects studied include environmental microbiology, microbial responses to hostile environments, microbial pathogens, microbial engineering, microbial resistance to antibiotics and search for new antimicrobials.

- Plant Molecular Genetics. Research in this area aims at elucidating signaling pathways in growth and adaptive responses of plants to environmental changes and pathogenic diseases. Besides the intrinsic fundamental interest in understanding key biological processes in plants, the ultimate goal is to develop new tools and methods to improve crop production and quality. Biotechnological applications such as the use of plants as biopharmaceutical factories or as tools to fight environmental problems arising from spillages and the accumulation of toxic substances are also being studied.

- Systems Biology. A more recent focus of research at the CNB is on the application of emerging concepts and tools in the fields of systems biology, evolutionary biology, computational biology and synthetic biology to biologically relevant questions. The biotechnological side of this approach includes novel strategies to re-program bacteria for the efficient production of chemicals, biodegradation of toxic pollutants or as biosensors to monitor the presence of given chemicals. Metagenomics, metatranscriptomics and mathematic modeling techniques are used to evaluate changes in composition, function and activity of bacteria in response to environmental

perturbations, as well as to determine the conditions that favor combinations of species for specific tasks in biotechnological, clinical and ecological scenarios.

- Structural Biology. The CNB stands out for its critical mass of research in 3D-electron and X-Ray microscopy, ranging from cryo-electron microscopy to 3D single particle reconstruction, tomography and correlative methods, together with in-house development of imaging software. Groups focusing on X-Ray crystallography, functional proteomics and biophysics complete the coverage of key areas in structural biology. Research in this area is transversal and connects with biochemists and cell biologists who apply leading-edge biophysical approaches to resolve biological questions, such as the molecular mechanisms of virus assembly, DNA repair, cell division or protein homeostasis.

- Cellular and Molecular Biology. Research groups in this area cover two broad, but closely interwoven topics. The first topic is molecular virology and comprises multidisciplinary efforts to dissect viral replication mechanisms and structural studies of key viral proteins, as well as virus-host interactions of relevant human and veterinary pathogens. The second topic is regulation of gene expression, with a focus on the networks that control the function of mammalian genes with critical roles in normal and pathological processes, including developmental defects, cognitive disorders, neurodegeneration and rare diseases.

- Immunology and Oncology. Biomedical research groups in this area address various key aspects of innate and adaptive immunity, as well as immunotherapy, with special emphasis on characterizing the molecular mechanisms that underlie inflammation, the processes that drive tissue-specific tumor development, as well as tumor immunology and the relationships among stem cells, inflammation and cancer. A broad and multidisciplinary approach to study these diseases integrate knowledge ranging from cell biology and immunology to nanomedicine and stem cell biology, as well as input from clinical research through a network of collaborations with hospitals and pharmaceutical companies.

Candidates must obtain the proposal's approval from the head of the research groups available in the following link: http://www.cnb.csic.es/index.php/en/research/research-departments

To look for the contact information please check here https://www.cnb.csic.es/index.php/es/el-cnb/busqueda-de-personal

For general inquiries or guidance on which group to choose, candidates may contact: acuenda@cnb.csic.es

**CNB does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUTE OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY AT THE UNIVERSITAT AUTÒNOMA DE BARCELONA (ICTA -UAB)

ICTA-UAB

Period of enjoyment: From January 2025 to November 2026.

Location: Edifici ICTA-ICP, Carrer de les Columnes s/n, Campus de la UAB, 08193 Cerdanyola del Vallès, Barcelona.

Webpage: https://www.uab.cat/icta/

The Institute of Environmental Science and Technology at the Universitat Autònoma de Barcelona is a research center of the Universitat Autònoma de Barcelona that hosts approximately 120 researchers trained in environmental sciences spanning natural, socio-economic and engineering fields. ICTA-UAB's mission is to undertake cutting-edge research and training on interactions between humans and Earth systems, to build integrative and applied knowledge for a sustainable future. Our research is structured around 5 societal challenges, focused on oceanic and land-use systems, cities, production and consumption patterns, and transformative policies. We do brave science for a changing world through cutting-edge interdisciplinary research, a commitment to society and equity, and by demanding policy action from decision-makers.

Research proposals presented to ICTA-UAB must be related to the following issues:

- The influence of climate change on African small-scale fisheries and coastal fishing communities (address proposal to Patrizia Ziveri, Patrizia.Ziveri@uab.cat)
- The influence of ocean acidification on calcifying ecosystems (address proposal to Patrizia Ziveri, Patrizia.Ziveri@uab.cat).
- How knowledge on climate adaptation travels through and by the African diaspora in Europe (address proposal to Panagiota Kotsila, Panagiota.Kotsila@uab.cat)
- The social impacts of conservation policy (e.g. protected areas, payments for ecosystem services, REDD+) and/or how conservation data can contribute to injustice in conservation governance (address proposal to Dan Brockington & Esteve Corbera, Daniel.Brockington@uab.cat & Esteve.Corbera@uab.cat)

All proposals must obtain validation before submission of the application from the contact person/people from each area mentioned above.

**ICTA-UAB can provide support in finding accommodation, for the selected candidate only, within the university's residential building. Those that deny this option must secure their own option for accommodation and inform both parties, at least, 1 month before arrival in Spain.*

CASTILLA-LA MANCHA HEALTH RESEARCH INSTITUTE (IDISCAM)

Period of enjoyment: From January 2025 to November 2026.

Location: FINCA DE LA PERALEDA, S/N, 45071, Toledo, Ciudad Real, España.

Webpage: https://idiscam.es/

Castilla-La Mancha Health Research Institute is conceived as a multidisciplinary biomedical research centre, with the aim of promoting, developing, transferring, managing and disseminating research, scientific and technological knowledge, innovation, teaching and training in the field of Biomedicine and Health Sciences to contribute to the prevention of disease, the promotion and protection of health, the treatment and rehabilitation of disease, and to the improvement of the quality of life of the population, teaching and training in the field of Biomedicine and Health Sciences to contribute to the prevention of disease, the promotion and protection of health, the treatment and rehabilitation of disease and to raise the level of knowledge about the health of the population, as well as to manage the research of the entities that comprise it. IDISCAM counts on the collaboration of the University of Castilla-La Mancha and the University of Alcalá.

Research proposals presented to IDISCAM must be related to the following research areas:

- Area of Neurosciences
- Area of Chronic Diseases and Cancer
- Health Technology, Precision Medicine and Ageing Area
- Infectious, Inflammatory and Immunomedical Diseases Area
- Transversal Area: Primary Care, Public Health, Health Care.

To obtain the proposal's approval, please email: bromojaroa@externas.sescam.jccm.es

**IDISCAM does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

INSTITUTE OF MATHEMATICAL SCIENCES (ICMAT)

ICMAT INSTITUTO DE CIENCIAS MATEMÁTICAS

Period of enjoyment: From January 2025 to November 2026.

Location: C. Nicolás Cabrera, 13-15, 13-15, Fuencarral-El Pardo, 28049 Madrid.

Webpage: https://www.icmat.es/es/

Institute of Mathematical Sciences is a joint research center of the Consejo Superior de Investigaciones Científicas - CSIC (Spanish National Research Council) and three Madrid universities: the Universidad Autónoma de Madrid (UAM), the Universidad Carlos III de Madrid (UC3M), and the Universidad Complutense de Madrid (UCM).

The ICMAT is located on the UAM Campus in Madrid, its facilities are exceptional in the field of mathematical research. Its goal is to generate knowledge in all the areas of mathematics, particularly in Algebraic Geometry, Mathematical Physics, Differential Geometry, Geometric Mechanics, Mathematical Analysis, Differential Equations and Applications, Number Theory, Group theory, Statistics, Probability, Operations Research and Mathematics of Quantum Information.

Research proposals presented to ICMAT must be related to the following research areas:

- **Algebra and Geometry.** The group conducts research in a broad variety of topics, in the areas of abstract algebra (group theory, commutative algebra), algebraic geometry (arithmetic geometry, number theory, moduli spaces of bundles), differential geometry (geometric analysis, geometric mechanics, dynamical systems and the geometry of PDEs) and topology (topological fluid dynamics, symplectic and contact topology, low-dimensional topology). As such, the research is naturally interdisciplinary, fostering an important level of cross-fertilization between the different areas. In addition, a number of the themes finds their motivation in ideas stemming from physics, such as special metrics, gauge theories and their algebro-geometric counterparts.

- **Mathematical Analysis and Differential equations.** These are very active, deeply interrelated fields of research with a preponderant position within the mathematical sciences. This line deals with fundamental problems in the fields of harmonic analysis, partial differential equations, geometric group theory, functional analysis, geometric measure theory, operator algebra, differential geometry and probability, and has been awarded with a total of 7 ERC grants. The topics of interest in this line are classical problems around the Kakeya conjecture and Bochner-Riesz multipliers, the Schrödinger and wave equations, elliptic PDE in rough domains and connections with geometric measure theory, harmonic analysis and geometric group theory for nonamenable groups, classical and abstract Calderón-Zygmund theory and problems around the invariant subspace problem, operator theory, geometry of Banach spaces, complex analysis, quantum probability, and analytic number theory. Also, this group

considers differential equations arising in fluid mechanics, spectral theory, mathematical physics and mathematical biology. This is an interdisciplinary subject, with significant applications to engineering, biology and physics.

- **Applied Mathematics.** This research group works to develop the mathematical foundations and models needed to deal with the main new societal challenges, with a focus on Data Science, Machine Learning and Quantum Technologies. In particular they consider a wide variety of mathematical problems which are motivated by quantum technologies, such as condense matter and many body systems, quantum control, foundational aspects of quantum mechanics and the theory of operator algebras. In the field of Machine Learning and Data science, they consider Bayesian approaches to treat adversarial risk analysis and adversarial machine learning, and work in the areas of security and cybersecurity, and the tracking of fake news. Finally, other topics of interest are mathematical modelling, simulation, and numerical computation with applications in microfluidics modelling and technological applications, geophysical fluid dynamics, etc.

To obtain the proposal's approval, please email: comision.igualdad@icmat.es

**ICMAT does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

CENTRE FOR GENOMIC REGULATION (CRG)

Period of enjoyment: From January 2025 to November 2026.

Location: C/ del Dr. Aiguader, 88, Ciutat Vella, 08003 Barcelona.

Webpage: https://www.crg.eu/

Centre for Genomic Regulation is an international biomedical research institute of excellence whose mission is to discover and advance knowledge for the benefit of society, public health and economic prosperity. The CRG believes that the medicine of the future depends on the groundbreaking science of today. This requires an interdisciplinary scientific team focused on understanding the complexity of life from the genome to the cell to a whole organism and its interaction with the environment, offering an integrated view of genetic diseases.

Research proposals presented to CRG must be related to the following research areas:

- Medical Genomics: dissecting human genome variation and its role in human rare and common diseases; applying genomics and disease models to define causal mechanisms and new therapies.

- Bioinformatics and Genomics: computational biology of RNA processing; comparative bioinformatics and genomics; gene function and evolution; genomic and epigenomic variation in disease; genomics and biodiversity.

- Cell and Developmental Biology: cell trafficking and secretion; microtubules function and cell division; cell and tissue dynamics; intra-cellular cell organization; oocyte biology and cellular dormancy.

- Gene Regulation Stem Cells and Cancer: mechanisms of gene expression and epigenetic regulation (from chromatin organization, alternative splicing, RNA modifications to mRNA translation); molecular basis of cellular decisions involved in tissue homeostasis and diseases, such as cancer; cell reprogramming and tissue regeneration.

- Systems Biology: dynamic gene regulatory networks; development and evolution (genomics, single cell approaches); systems neuroscience; combining systematic and quantitative data collection with computational models, to reach a deeper dynamic understanding of complex biological processes.

- Core Technologies Programme: offering services and training in advanced technologies such as light microscopy (including super-resolution microscopy), proteomics, genomics, tissue engineering, FACS, biomolecular screening and protein technologies.

To obtain the proposal's approval, please email: training@crg.eu

**CRG does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

FACULTY OF PHARMACY AND FOOD SCIENCES (FFCA-UV)

VNIVERSITAT DE VALÈNCIA

Facultad de Farmacia y Ciencias de la Alimentación

Period of enjoyment: From January 2025 to June 2026 (preferably from February 2025-July 2025 or September 2025-February 2026).

Location: Av. de Vicent Andrés Estellés s/n 46100 Burjassot. Valencia.

Webpage: https://www.uv.es/uvweb/farmacia/es/facultad-farmacia-ciencias-alimentacion-1285849056598.html

The Faculty of Pharmacy and Food Sciences is a center that offers the following degrees:

- Degree in Pharmacy
- Degree in Human Nutrition and Dietetics
- Double Degree in Pharmacy and Human Nutrition and Dietetics
- Degree in Food Science and Technology
- Degree in Gastronomic Sciences

The faculty, located on the science campus, has excellent facilities, both classrooms and laboratories and library, which have the best equipment to develop quality teaching, both theoretical and practical. All the departments involved are composed of teachers who are also researchers, many of them of recognized prestige, and have all the necessary infrastructure to accommodate graduate students and to develop research excellence.

The degree in **Pharmacy** integrates subjects taught in more than 20 areas of knowledge, from those related to basic sciences (physics, chemistry, mathematics and biology) to more specific ones (pharmacology and pharmaceutical technology), including others as varied as anatomy, biochemistry, botany, economics, physiology, microbiology, nutrition, parasitology, public health, toxicology, etc.

The degree in **Human Nutrition and Dietetics** trains professionals qualified to develop activities oriented to food and nutrition of individuals or groups in various physiological and/or pathological situations, according to the principles of protection and promotion of health, disease prevention and dietary-nutritional treatment when necessary, including the deontological and legal principles that allow professional practice with autonomy, awareness of knowledge renewal and ability to collaborate with other professionals in the health field.

The degree in **Food Science and Technology** trains in the mastery of the various aspects of food production, while training professionals with the necessary scientific and technological knowledge that allows them to study the nature of food, the causes of its deterioration, the fundamental principles of its processing and its improvement for public consumption. This knowledge is directed to the design and selection of the best methods of preservation, processing, packaging, storage, distribution and use, so as to ensure high sensory quality food,

safe, nutritious, healthy, adapted to new consumption habits and in accordance with current legislation.

The degree in **Gastronomic Sciences** aims to train professionals with a good base of scientific, technological, health and business management knowledge, capable of designing projects and managing gastronomic services in the professional fields of haute cuisine, commercial and collective catering and the food industry. In addition, the degree enables students to develop and promote creativity, innovation and research in the world of gastronomy, which has a great economic and social impact, responding to the changes occurring in the field of food, in the perception of cuisine and in new forms of consumption.

Research proposals presented to FFCA-UV should be related to the following research group area:

- **Parasites and Health - ParaSalut - UV**

The research activity of the ParaSalut group is fundamentally basic, covering different aspects of the parasites-health relationship, both in humans and in animal reservoirs of parasitic diseases or models of them. The group has lines of work in parasitic diseases produced by Protozoa, Helminths and Arthropods. All the lines are already in progress and have numerous publications, as reflected in the CCVV of the members of the group that can be consulted in the web.

Publications M. Trelis - orcid.org/0000-0002-5977-3337.

The research line open to the call is "*Studies on the relationship between parasites and nutritional status, at maternal and child level and at school level (physical and cognitive development)*".

To obtain the proposal's approval, please email: maria.trelis@uv.es

PDI-Titular of the Universitat de Valencia (UV)

Area of knowledge: PARASITOLOGY

Department: Pharmacy and Pharmaceutical Technology and Parasitology

Professor in the degrees of Pharmacy (General Parasitology and Immunology) and Human Nutrition and Dietetics (Food Parasitology).

Curriculum vitae: https://www.uv.es/uvweb/universidad/es/ficha-persona-1285950309813.html?p2=trelis&idA=

**FFCA-UV does not provide nor has any requirements regarding accommodation. It is the fellow's responsibility to secure it and inform both parties, at least, 1 month before arrival in Spain.*

ANNEX 2: STANDARD LIVING EXPENSES IN SPAIN

The information below provides a breakdown of the average cost of living in Spain. This information is intended to give candidates an understanding of the financial requirements associated with this research fellowship and to assist them in calculating their expenses.

Accommodation expenses per month vary depending on the option chosen:

- Individual apartment: from 900 euro to 1400 euro
- Individual room in a shared (mostly mixed-gender) apartment: from 500 euro to 800 euro
- University or Researchers' residence (it usually includes cleaning services and some meals):
    - Individual room: from 800 to 1200 euro
    - Shared room: from 500 to 900 euro

NOTE: Some accommodations require deposit payment or the payment of agency tax.

Utilities expenses per month range from 100 to 150 euro.

Groceries expenses per month range from 200 to 300 euro.

Public transportation expenses per month range from 50 to 80 euro.

Emergency health and travel insurance costs approximately 80 euro per month.