PUBLIC RESEARCH ORGANISATIONS IN SPAIN

RECRUITMENT OPPORTUNITIES FOR RESEARCHERS 2018-2019

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES
FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

PUBLIC RESEARCH ORGANISATIONS IN SPAIN:
recruitment opportunities for researchers 2018-2019

This document compiles information relative to Public Research Organisations with their recruitment opportunities for researchers during last quarter of 2018 and 2019.

Further information about other opportunities for researchers in Spain can be found at https://www.euraxess.es/spain/information-assistance/career-development/professional-development-opportunities-spain.

e-NIPO: 057-18-081-7

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INTRODUCTION

What are Public Research Organisations (PRO)?

Public Research Organisations (PRO or OPIs for its initials in Spanish) are national and public research institutions that, together with universities, form the basic core of the Spanish public system of scientific research and technological development in Spain, since they carry out most of the activities programmed in the National Plan for Scientific Research, Development and Technological Innovation.

PRO are regulated by the Law 14/2011 from June 1st of Science, Technology and Innovation which recognizes as such eight research centres in Spain:

- The Spanish National Research Council (CSIC),
- The Research Centre for Energy, Environment and Technology (CIEMAT),
- The Geological Survey of Spain (IGME),
- The Spanish Institute of Oceanography (IEO),
- The National Institute of Agricultural Research (INIA),
- The Carlos III Health Institute (ISCIII),
- The Institute of Astrophysics of the Canary Islands (IAC)
- The National Institute of Aerospace Technology (INTA).

Currently, CSIC, CIEMAT, IGME, IEO, INIA and ISCIII are attached to the Ministry of Science, Innovation, and Universities through the State Secretariat for Research, Development and Innovation. Only INTA is attached to the Ministry of Defense. There is also an eighth PRO, the IAC Consortium with a mixed ascription to the Canary Islands Government and Ministry of Science, Innovation, and Universities.

The scientific and technological capacities of these organisations, as well as their size and structure are very diverse. Their funding strongly depends on the public funds they receive through the State's General Budgets. However, these organisations and agencies also have great capacity and experience in attracting competitive public and private funds.

The roles that the Law of Science establishes for these organisations are the following:

- To manage and execute the National and Sectoral Programmes assigned to them in the National and Regional Research Plans,

- To develop the training programmes for researchers specified in these plans,
- To contribute to the definition of the objectives of the National Plan and collaborate in its evaluation and monitoring,
- To give scientific advice to the organisations dependent on the Administration of the State or of the Autonomous Communities when requested,
- Any other role that is entrusted to them by the competent Administration.

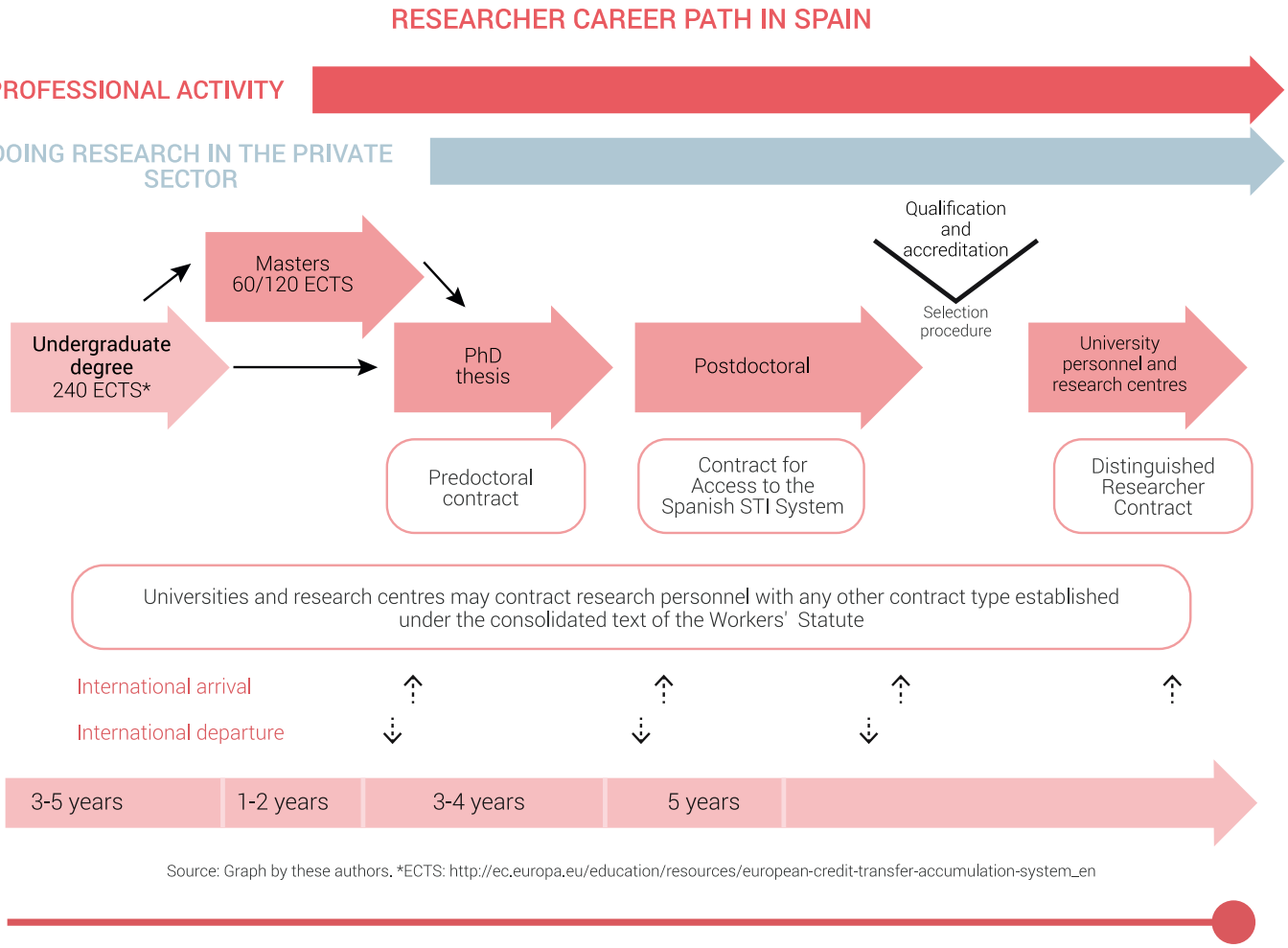
Researchers professional career at a PRO

According to the Spanish Law of Science, Technology and Innovation (2011), State Research Centres attached to the Central Government (such as PRO), as well as other Regional Government Research Bodies, and state universities can offer three types of researcher-specific employment contracts when receiving public funds for the recruitment of researchers:

- **Predoctoral contract:** yearly renewable full-time contract (up to a maximum of 4 years or 6 in the case of disabled persons) for doing research work as part of specific, original research projects obtained for trainees enrolled in a PhD programme.

- **Contract for accessing the Spanish Science,** Technology and Innovation System: postdoctoral contracts with up to a 5-year duration (designed similarly to the 'tenure track' used in other countries) for undertaking a research activity that allows to achieve a high level of professional perfection and specialisation for the consolidation of professional experience.
Following completion of the second year of the contract, researchers can request an evaluation of their research activity. These evaluations will be taken into account in the selection processes for permanent staff announced by public universities, and PRO depending from the General State Administration, and other Public Administrations.

- **Distinguished researcher contract:** postdoctoral contracts for researchers of renowned prestige to perform research activities or team leading, as well as directing research centres, unique scientific and technological facilities and programmes of great importance in the field of knowledge, all in accordance with the functions and objectives of the employer.



Source: Graph by these authors. *ECTS: http://ec.europa.eu/education/resources/european-credit-transfer-accumulation-system_en

Consolidating a career in research in the Spanish Public System as civil servant

The consolidation of a career in research, implying a sequenced series of promotion opportunities and prospects for professional advancement, in accordance with the principles of transparency, equality, merit and skill, is achieved in public institutions (universities and research centres) in Spain by gaining access to the civil service linked to research.

Public employment is open to Spanish researchers, foreign researchers legally residing in Spain and also foreigners under the umbrella of International Treaties signed by the European Union and ratified by Spain allowing the free movement of workers.

Civil servant research staff working for Public Research Centres (PRO and universities) reporting to the Central Government, are divided into the following scientific categories, all of which have full research authority:

- Research Lecturers of Public Research Centres,
- Scientific Researchers of Public Research Centres,

- Head Scientists of Public Research Centres.

In addition, civil servant public university lecturers will belong to one of the following two categories which have full teaching and research authority: University Professors and University Senior Lecturers.

Available positions in those scientific categories are approved by the Royal Decree of Public Employment Offer which is usually adopted in the first quarter of each year. The number of available positions is based on the reposition rate established in the Spanish Law of State Budget of each economic exercise. Calls for selection processes for accessing to the afore-mentioned positions will be published in the Official State Gazette (https://www.boe.es/diario_boe/index.php?lang=en) as well as at PRO and Ministry websites. These calls include, in addition to the positions offered, the requirements of the candidate and the information of the selection process. These calls are usually published during the second semester of each year. For the last years a 100% reposition rate has been achieved within the PRO.

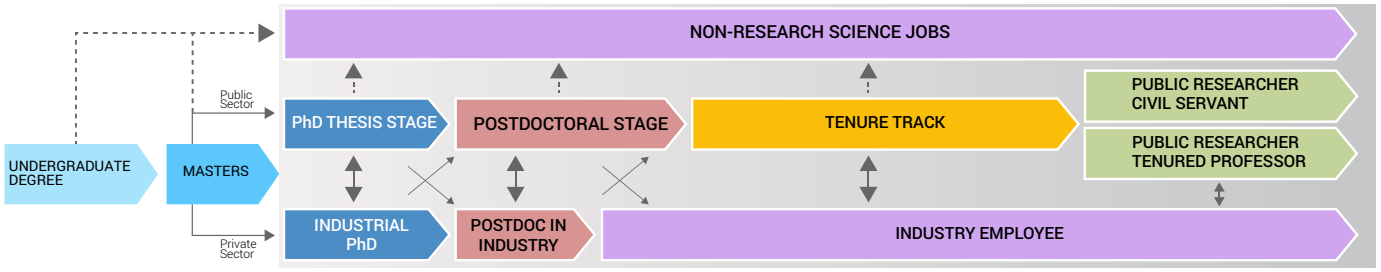
The Government will set up an evaluation system for the performance of the civil servant researchers at the PRO. In addition to this evaluation, the researchers will have the option to apply for periodic revisions of their research activity every six years. Positive assessments in these revisions may result in the acquisition and consolidation of an increase in the complementary salary components.

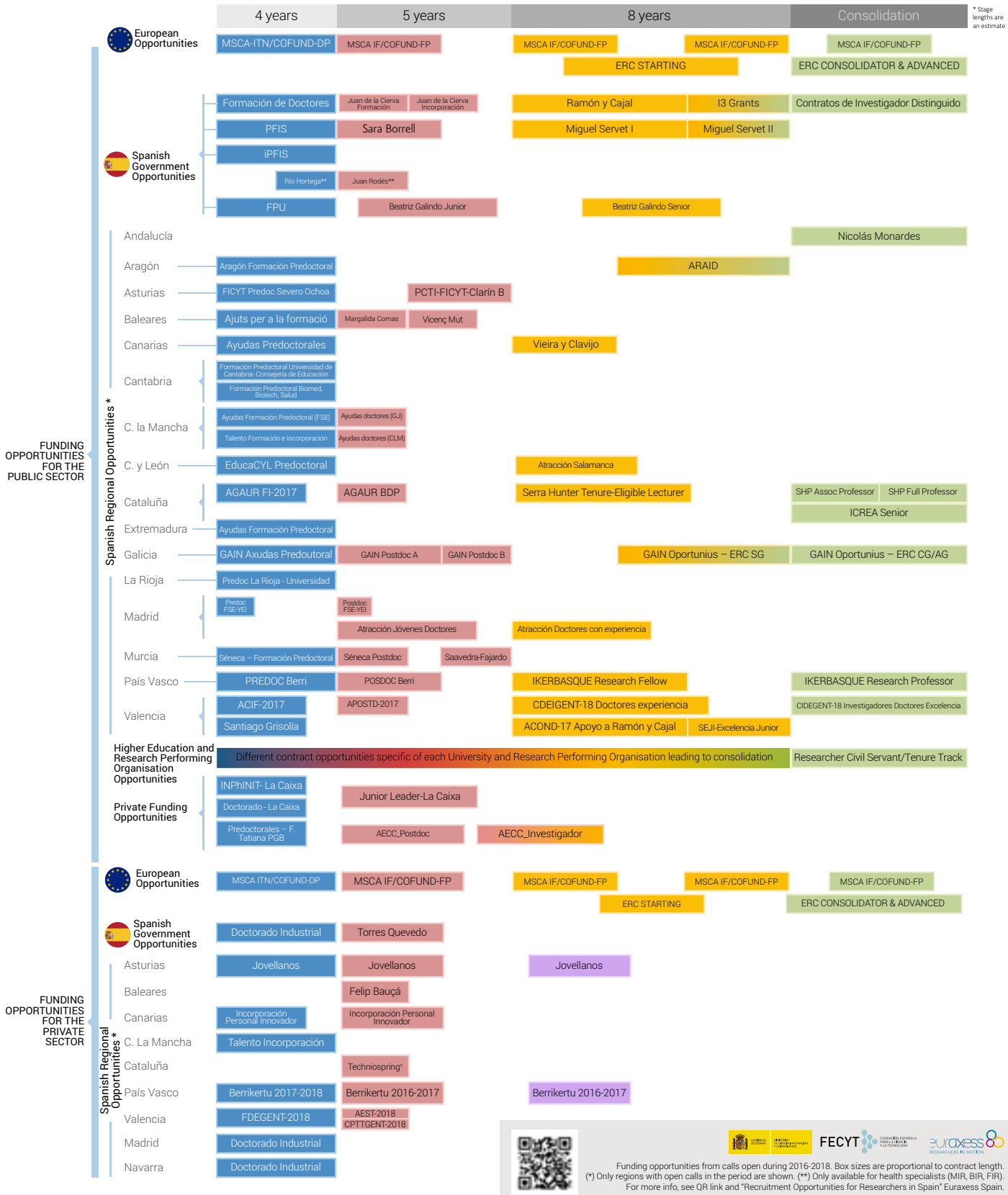
Other chances for researchers at PROs

In addition to the Public Employment Offers, PRO can contract researchers through project funding (national, international and regional) and through several other public and private calls which are specially addressed for the recruitment of researchers in Spain.

The Spanish Foundation for Science and Technology (FECYT) has recently gathered together in a map all the regional, national and European opportunities to carry out research in Spain that have been available between 2016 and 2018. This map can be downloaded from FECYT's website: https://www.fecyt.es/es/publicacion/researcher-career-path-spain-glance-3rd-edition.

The map shows a total of 82 calls for the public sector scattered in: 28 calls for the PhD stage, 23 for the postdoctoral stage, 19 for the tenure-track stage, and 12 for the consolidation stage.





FECYT

Funding opportunities from calls open during 2016-2018. Box sizes are proportional to contract length.
(*) Only regions with open calls in the period are shown. (**) Only available for health specialists (MIR, BIR, FIR).
For more info, see QR link and "Recruitment Opportunities for Researchers in Spain" Euraxess Spain.

PUBLIC RESEARCH ORGANISATIONS (PRO) IN SPAIN

CARLOS III HEALTH INSTITUTE (ISCIII)

RESEARCH CENTRE FOR ENERGY, ENVIRONMENT AND TECHNOLOGY (CIEMAT)

GEOLOGICAL SURVEY OF SPAIN (IGME)

SPANISH NATIONAL RESEARCH COUNCIL (CSIC)

INSTITUTE OF ASTROPHYSICS OF THE CANARY ISLANDS (IAC)

NATIONAL INSTITUTE OF AEROSPACE TECHNOLOGY (INTA)

NATIONAL INSTITUTE FOR THE AGRICULTURAL AND FOOD RESEARCH AND TECHNOLOGY (INIA)

SPANISH INSTITUTE OF OCEANOGRAPHY (IEO)

Carlos III Health Institute (ISCIII)

Research areas: Biomedical Research.
Location: Madrid.
Website: www.isciii.es; Contact: rrhh@isciii.es

With thirty years of history, the Carlos III Health Institute (Instituto de Salud Carlos III/ ISCIII) is the main Public Research Entity funding, managing and carrying out biomedical research in Spain.

Putting patients and the public at the heart of all its activities and objectives, the Institute promotes and coordinates biomedical research and provides scientific and technical services of the highest quality in partnership with all the organisations forming part of the Spanish System of Science, Technology and Innovation.

The ISCIII is focused on three areas:

- Biomedical Research: Promotion and development of quality and highly competitive research, both through our role as a funding agency of the research carried out in hospitals, universities and research centers, and through the research carried out by our own centres and researchers.

- Scientific-Technical Services: Provision of reference support services to the National Health System (NHS) and society as a whole.

- Training: Design and development of training programmes in public health and in scientific and health-care administration and management, primarily oriented to health professionals.

The Spanish National Centres of ISCIII act as the reference laboratories and services running a variety of activities focused on control of diseases: reference diagnosis, surveillance and advisory activities, and research and educational programmes.

The reference centres of the ISCIII are the Spanish National Center of Microbiology (CNM), the Spanish National Center of Epidemiology (CNE), the Spanish National Center of Environmental Health (CNSA), the Spanish National Center of Rare and Uncommon Diseases (IIER), theSpanish National Center of Tropical Diseases (CNMTrop), the Agency for Evaluation of Healthcare Technology, the National School of Health, the National School of Occupational Medicine, the National Library of Health, and Other units such as Chronic diseases, Health cares and nursing and e-Health and telemedicine.

JOB OPPORTUNITIES 2018-2019

The ISCIII has received the *Human Resources Excellence in Research* award by the European Commission, because of its commitment to improve working conditions and comply with ethical standards.

Job opportunities at ISCIII will be published at http://www.eng.isciii.es/ISCIII/es/contenidos/fd-el-instituto/fd-administracion-gestion/empleo.shtml

EXPRESSIONS OF INTEREST

Spontaneous applications for our calls are welcome; please send us your CV to rrhh@isciii.es

OPPORTUNITIES FOR DOCTORAL TRAINEES (R1)

The annual average number of open positions for doctoral trainees is as follows:

- Infectious diseases and microbiology: 4 positions,
- Epidemiology: 1 position,
- Chronic diseases: 1 position,
- Rare diseases: 1 position,
- Other fields: 1 position.

OPPORTUNITIES FOR RECOGNISED RESEARCHERS (R2)

The ISCIII offers job opportunities for postdoctoral researchers, largely by the intramural programme and EU initiatives after competitive evaluation. The annual average number of postdoctoral positions is 11 (rate of positions by field similar to that showed for doctoral trainees).

OPPORTUNITIES FOR ESTABLISHED RESEARCHERS (R3)

Job opportunities for investigators at the ISCIII are based on national competitive exams of Public Employment Offer. The ISCIII publishes open calls for investigators every year on infectious diseases, public health and other diseases. The candidates have to expose their CV and future project into the knowledge field. The best candidates are selected and get a permanent position. A total of 8-10 permanent positions have been offered in last three years.

OPPORTUNITIES FOR GROUP LEADERS (R4)

Job opportunities for leaders are also available at the ISCIII, offering permanent positions of research professor and research investigator in several fields of public health. The selection procedure is competitive (CV and project). The number of positions in last two years has been of 12-14 in annual average.

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

Ciemat
Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas

Research Centre for Energy, Environment and Technology (CIEMAT)

Research areas: Energy, Environment, Particle Physics, Biomedicine and Technology.
Location: Madrid.
Website: www.ciemat.es; Contact: empleo.rrhh@ciemat.es.

The CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas) is a public research body assigned to the Ministry of Science, Innovation and Universities under the Secretariat of State for Research, Development and Innovation, focusing on energy and environment and the technologies related to them. It maintains an R&D&I programme in nuclear energy and ionizing radiation which makes it the depository of capabilities, knowledge and facilities unique in Spain and rank it as an institution of reference and support to government in these matters.

It holds an intermediate position in the chain that goes from the creation of basic knowledge to its industrial application, serving as a bridge between R&D&I and goals of social interest.

The historical development of the CIEMAT, its vocation of coming closer to the needs of society and industry in current energy technologies and development, have made the following scientific-technical areas, the framework of its R&D&I activities: renewable energies and energy savings, nuclear fission, nuclear fusion, energy valuation, elementary particles and astroparticles, biology and biomedicine, environment, ionizing radiations, scientific instrumentation and medical physics, materials analysis and characterisation, computation and information technology sciences, and energy and environmental system studies.

The CIEMAT has a fundamental role in Spain and in Europe in the Nuclear Fusion R&D&I programme, being the Spanish coordinator in the EUROfusion Consortium, so all activity in fusion in the various centres and universities in the country, is channelled and coordinated by it.

Its team of 1,367 people is technologically and geographically diversified. In addition to its central offices in Madrid, it has the Solar Platform of Almería (PSA) in Andalucía, the Centre for Development of Renewable Energy Sources (CEDER) and the International Centre for Studies in Environmental Law (CIEDA) in Soria, the Extremadura Advanced Technology Centre (CETA in Trujillo, and the Centre for Socio-Technical Research (CISOT) in Barcelona. The CIEMAT has a wide range of laboratories and preindustrial facilities that enable projects to be carried out in very different scientific-technical areas. Two unique Scientific and Technological Infrastructures (SSTF) stand out, the National Fusion Laboratory, and the PSA, international centre of excellence in the field of solar concentrating technologies, both with consolidated programmes for access and use by researchers from other institutions and bodies; as well as the Ionizing Radiations Metrology Laboratory (LMRI), depositary of primary measurement standards for ionizing radiations.

In addition to its capacity for carrying out projects, the CIEMAT's facilities provide a direct service to society through technology transfer, generated by its technology offer and technical services performed both for business and public bodies.

JOB OPPORTUNITIES 2018-2019

Job opportunities for researchers at CIEMAT are based on national competitive exams of Public Employment Offer. Positions will be announced through the State Official Gazette. CIEMAT can yearly offer more than a hundred positions for doctoral trainees, postdoctoral researchers, or experienced researchers through regional, national (i.e. Ramón y Cajal contracts), or international (MSCA) calls.

Geological Survey of Spain (IGME)

Research areas: Earth Sciences.
Location: Madrid.
Website: www. igme.es; Contact: otri@igme.es.

The Instituto Geológico y Minero de España (IGME) is specialized in Earth Sciences, assuming the role of Geological Survey of Spain. With around 381 employees, there are 78 permanent researchers and 59 pre- and post-doctoral researchers. The headquarter is located in Madrid, but there are 12 Territorial Units in different regions, as well as a delegation in Luanda (Angola).

The activity of the IGME is focused in Geology and Geophysics, Hydrogeology, Geological Resources and Mining, Geoenvironmental Sciences and related Technologies. Interdisciplinary institutional relations are kept with other areas of knowledge, contributing to the best understanding of the territory and of the processes that form and modify it, to the sustainable use of its resources and the conservation of the geological and hydrogeological heritage.

Its major research lines include, between others: Geological Hazards, Groundwater sustainable management, Marine Geology, Mineral Resources and Environmental impact of Mining, Global Change, 3D Geological modelling and Geological Heritage.

IGME's facilities include the Museo GeoMinero, with important scientific and historical collections of rocks, fossils and minerals; the Estación Paleontologica Rio Fardes, the research infrastructure around the Lower Pleistocene big mammals Fonelas-P1 fossil site; the Peñaroya core drill repository; and laboratories fully equipped for Geological, Hydrogeological, Geotechnical and Mining studies.

IGME's staff has proven experience in conducting research on different Earth Science topics at international level, and will offer all necessary elements to ensure a successful development of the project in a friendly and stimulating environment.

JOB OPPORTUNITIES 2018-2019

EXPRESSIONS OF INTEREST

IGME is interested in hosting fellows, research associates and post-doctoral researchers through public European and Spanish calls. Some specific Expressions of interest of IGME for the MSCA IF 2018 programme were published at https://eshorizonte2020.es/expressions-of-interests .

OPPORTUNITIES FOR DOCTORAL TRAINEES (R1)

Proposals for next calls of "Training of Doctors" (PFIS) and "Trainning of University Lecturers" (FPU) predoctoral grants from the Spanish Government are welcome. If you are interested please contact: otri@igme.es

See latest calls at:

- PFIS: http://bit.ly/Predoc-2017
- FPU: http://bit.ly/FPU_2017

OPPORTUNITIES FOR RECOGNISED RESEARCHERS (R2)

- 2 Ramón y Cajal positions for Earth Sciences researches are offered in 2018.
- 6 new Experienced Research positions are expected in IGME for 2018. The call, including the definition of requirements and research line of every position, will shortly be published at http://www.igme.es/convocatorias/convoca.htm .

OTHERS

For any information, contact us in otri@igme.es

Spanish National Research Council (CSIC)

Research areas: Humanities and Social Sciences, Biology and Biomedicine, Natural Resources, Agricultural Sciences, Physical Sciences and Technologies, Materials Sciences and Technology, Food Science and Technology, and Chemical Science and Technology.
Location: Madrid (headquarters).
Website: www.csic.es; Contact: sgarh@csic.es.

CSIC, as the largest public institution dedicated to research in Spain and the third largest in Europe, is a very well reputed entity in the academic and research international community. Its activity falls in the field of basic and applied research, and has a focus in technology transfer and generation of start-up companies. CSIC has research institutes in THE eight ABOVE MENTIONED research areas (http://bit.ly/2dvZEBR).

CSIC comprises a network of 122 research institutes, including joint centres co-directed by other organizations like universities or regional Governments, distributed throughout all Autonomous Communities in Spain (http://bit.ly/2sekZD0).

CSIC research groups are the operational units when it comes to conducting research and are integrated in Institutes and Centres for administrative and organizational purposes. Particularly, more than 1600 research groups develop a great scientific contribution in the eight different research areas.

CSIC is a major player in European R+D Framework Programmes: 726 FP7-actions (70 as coordinator) with over 246 M€ CE contribution, and 433 H2020-actions with a 178.4M€-contribution. CSIC is the Spanish institution receiving the largest amount of H2020 funds and also in terms of number of projects. In addition, CSIC is host institution for 90 ERC grants and an active member in Raw Materials and Food Knowledge and Innovation Communities (KIC). CSIC has a Commercialisation Department as well as a Spin-offs Department. The Commercialisation Department is in charge of the promotion of the technologies and patents available at CSIC in different areas of knowledge (http://www.csic.es/oferta-tecnologica). The Spin-offs Department provides guidance, training and support to the creation of new companies based on CSIC´s technologies and the know-how of its researchers. CSIC is the Spanish entity with the most patent applications and, according to WIPO and EPO databases, CSIC was also the principal Spanish applicant for PCT applications and European patent applications in 2017.

CSIC's groups and institutions gather great experience in obtaining competitive funds for research:

- In 2016, 3,058 RTD projects an actions were underway funded with 501.4 M€ from National Programmes (AEI, Autonomous Communities, FIS and other sources).
- 90 ERC actions funded with 123.6 €M: 24 Advanced Grants, 32 Starting Grants, 22 Consolidator Grants, 1 Synergy Grant and 11 Proof of Concept.
- 1121 agreements with companies in 2017, including research and development contracts, technological support contracts and technology transfer agreements.
- In the last five years CSIC has licensed 492 technologies to companies of different

industrial sectors for their exploitation in the market, 272 of these technologies were protected by patent applications.

Regarding scientific output, CSIC had over 13,500 indexed articles in 2017 (10,300 are Q1), and over 880 theses published and 95 priority patents.

CSIC collaborates with different Spanish and European Universities in Official Postgraduate programmes, adapted to the European Higher Education Area, leading to nationally recognized Masters' and Doctoral Degrees. In addition CSIC organizes practical trainings and host stages for technical staff (http://bit.ly/29Ozc4f).

JOB OPPORTUNITIES 2018-2019

EXPRESSIONS OF INTEREST

Proposals for predoctoral and postdoctoral positions are welcome. If you are interested in any of CSIC's group please contact them straightaway.

EXPRESSIONS OF INTEREST FOR DOCTORAL TRAINEES (R1)

CSIC counts on internal funding for predoctoral contracts associated to CSIC's research projects through Employment opportunities (Job Bank, http://www.csic.es); researchers can apply for predoctoral contracts for PhD Programmes depending on external funding:

- Ministry of Economy, Industry and Competitiveness (MEIC): Grants for predoctoral contracts for the training of doctors, http://bit.ly/Predoc-2017.
- Ministry of Education, Culture, and Sports (MECD): FPU, Grants for the University Faculty Training programme, http://bit.ly/FPU_2017.
- Carlos III Health Institute: PFIS, Predoctoral contracts in health research, http://bit.ly/ISCIII-ayudas.
- Spanish Regional Opportunities.
- Private Funding Opportunities: "la Caixa" Foundation: INPhINIT, "la Caixa" Doctoral Fellowship Programme Predoctoral Training) and Doctorates at Spanish universities and research centres, Fundación Banco Sabadell: INVES 2017, Ayudas a la Investigación 2017 para predoctorales, Fundación Tatiana Pérez de Guzmán.
- EU funding (Early Stage Researcher): ITN-MSCA, EURAXESS offers, http://bit.ly/1XwfcmG.

EXPRESSIONS OF INTEREST FOR EXPERIENCED RESEARCHERS (R2 AND R3)

Postdoctoral researchers interested in working at CSIC are invited to apply to public and private calls such as Ramón y Cajal, Juan de la Cierva, IKERBASQUE, ICREA, Clarín, ARAID, Opportunius, Seneca Foundation, Atracción de Talento, etc.

Temporary contracts associated with research projects may also be available at CSIC through:

- CSIC's Employment opportunities (Job Bank), www.csic.es.
- European calls: MSCA-IF (http://bitly/247jQHV).
- Self-contracting projects: European Research Council (ERC, https://erc.europa.eu/), Starting Grants, Consolidator Grants and Advanced Grants; ComFuturo project (FGCSIC; www.fgcsic.es/) and R&D&I for young researchers without linkage or temporal link (MEIC; http://bit.ly/JIS2015)
- Open competition for public employment offers as Tenured Scientist, Research Scientists or Research Professor, or Distinguised Researcher.

Institute of Astrophysics of the Canary Islands (IAC)

Research areas: Astrophysics.
Location: San Cristóbal de La Laguna.
Website: www.iac.es; Contact: rrhh@iac.es

The Instituto de Astrofísica de Canarias (IAC) is a science and technology centre dedicated to research in astronomy and astrophysics. The IAC's mission is to conduct and promote all types of astrophysics-related research and to disseminate this knowledge. Moreover, the IAC also cooperates in specialized education at University level, offers training to scientists in astrophysics and related fields, and fosters relations with both national and international research communities. In 2011 the IAC was designated a Severo Ochoa Centre of Excellence.

Research: The IAC is an internationalized Spanish research centre aiming 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. Outstanding results are expected in key areas of research such as Solar physics, Sun-Earth connections, Exoplanetary systems, Solar System, Stellar and interstellar physics, Formation and evolution of galaxies, Astroparticles and Cosmology.

Technology: The IAC develops much of the technology for its astronomical research activities in-house. As a result, the IAC has become highly proficient in some of the most important areas of knowledge and technology for scientific instrument development. These technical capabilities are made available to outside organizations as part of the IAC's commitment to other technological and industrial sectors.

Human Resources: About 380 people form the IAC staff, with more than 200 positions dedicated to research (60 permanent researchers, 80 post-docs and 60 PhD students), another 60 positions are occupied by high level engineers, while the remaining personnel provide technical and administrative support. The human resources programme is a fundamental pillar of the IAC, focused in PhD and postdoc fellowships, reinforcing internationality and the number of additional human resources for the five major research lines at the IAC.

International Dimension: International collaboration is in fact one of the defining characteristics and strengths of the IAC.

The interaction with world-leading institutions and scientists stimulates top-quality research, both in collaboration with our partners, as well as from the activity originated and

led by our researchers. The main evidence for present international collaboration comes from the fact that the vast majority of research articles produced by the IAC, around 95%, are published with international co-authors.

JOB OPPORTUNITIES 2018-2019

EXPRESSIONS OF INTEREST

IAC offers scientists all available advantages, facilities and resources. Given the leadership and participation of the IAC in GTC instrumentation (OSIRIS, CanariCam, EMIR and FRIDA), IAC research groups are preparing the scientific exploitation of these instruments. Active participation within the framework of these groups would potentially favor immediate access of the researcher to the GTC's scientific exploitation. In addition, the IAC actively participates in space projects, such as Solar Orbiter, Herschel, Planck, EUCLID, etc.

We aim to attract front-line researchers with the aim of continuously developing its own research lines or new topics arising in the fields of observational, theoretical and instrumental astrophysics, as well as carrying out support tasks. Current calls may be consulted at: http://www.iac.es/info.php?op1=26&ind=0&orden=fec&up=&lang=en

OPPORTUNITIES FOR DOCTORAL TRAINEES (R1)

The IAC devotes an important part of its funds and human resources to the trainning of graduate students in our doctoral degree programme. The IAC will invite applications for five PhD fellowships in Astrophysics every year. The successful candidates will work at the IAC's headquarters in La Laguna, (Tenerife) in a stimulating research environment. They will be expected to join one of the IAC's research groups and work towards obtaining a PhD. The call will be published on February every year.

OPPORTUNITIES FOR EXPERIENCED RESEARCHERS (R2 and R3)

The Research Division typically employs some 25 postdocs per year. There are three kinds of postdocs: those hired from internal IAC funds (who may have a support task), those hired with external funding, and those selected by the National Ramon y Cajal or Juan de la Cierva Programmes. Postdocs of the first and second category are selected by the Research Division Committee. An international advertising campaign is distributed among as many astronomical institutes as possible, along with advertisements in several astronomical journals and, in all cases, the AAS Job Register.

The Ramón y Cajal and Juan de la Cierva National Programmes select its postdocs from a list of applicants, aimed to attract the best young researchers to work in Spain.

OPPORTUNITIES FOR GROUP LEADERS (R4)

The Research Permanent Staff at IAC are civil servants, enrolled after a selection process conducted by the Spanish Ministry of Economy, to be ascribed to the IAC.

National Institute of Aerospace Technology (INTA)

Research areas: Aerospace, security and defence technology.
Location: Torrejón de Ardoz (Madrid).
Website: www.inta.es; Contact: caballerorp@inta.es

INTA is a Public Research Organization belonging to the Spanish Ministry of Defence. It is responsible for carrying out scientific research activities and to develop systems and prototypes on its field of knowledge, as well as providing technological services to the industry, universities and other institutions.

INTA specializes in research and technological development, dual in the aerospace, aeronautics, hydrodynamics, and defence and security technologies.

Among other, its main functions include: research and development of applicable technologies in their fields of activity, the performance of various types of tests to check and certify materials, components, equipment, subsystems and systems, technical advice and provision of services to official entities and agencies, as well as to industrial or technological companies and acting as the technological center of the Ministry of Defence.

INTA is structured into 4 technical Subdirectorates corresponding to its areas of expertise: GENERAL SUBDIRECTORATE OF SPACE SYSTEMS. The space capacity of INTA is based on three pillars:

1) Its network of laboratories and facilities for experimentation and ground testing, and even with remote sensing.
2) The land segments and space stations, both in the development and management of their own infrastructures (Torrejón de Ardoz and Maspalomas), as well as in the ESA and NASA centers in Spain.
3) Solid R & D teams with a long tradition of participating in the most diverse Spanish, European (ESA, Horizon 2020, Copernicus and Galileo) and international (NASA, JAXA, Roscosmos) projects and space programs.

INTA addresses all stages of space developments, from basic research to flight, whether for payloads, platform technologies, or satellites (NANOSAT 01 and 1B, and OPTOS).

GENERAL SUBDIRECTORATE OF AERONAUTICAL SYSTEMS. With an important and growing participation in national and international research programs and projects, scientific and technical innovation activities are carried out, as well as the provision of technological services in the aeronautical field, such as certification and Qualification of Aircraft and Aircraft Systems; testing and development of technologies in the field of turbojets; management of operational and experimental centers and the operation of aerial platforms considered as a singular technological scientific installation; analysis, design and testing of structures and mechanisms, as well as the characterization, optimization and development of materials processes; design and development of complete aeronautical

and unmanned aircraft systems ; R & D programs in the field of aerodynamics; Programs of evaluation of the security of the products and systems of the Information Technologies; geotechnical studies and tests, noise maps and TEMPEST evaluation test.

GENERAL SUBDIRECTORATE OF TERRESTRIAL SYSTEMS. From the Subdirection, in the Campus of "La Marañosa", in Madrid and the "Torregorda" Test Center in Cadiz, work is carried out on national and international scientific and technical research programs and projects and on R & D & I activities, Experimentation, certification and provision of technological services in the field of defense and security technologies.

Activities: develops the engineering of electro-optical and acoustic systems; performs the characterization of weapons systems, to certify and optimize their operational effectiveness; characterizes, certifies and optimizes the performance of vehicular, military and civil platforms; performs analysis and evaluation of NBQR defense-related systems and their trials; investigates, develops, evaluates, certifies and validates communication and information systems, simulation and all those related to new information technologies and cybersecurity…

GENERAL SUBDIRECTORATE OF NAVAL SYSTEMS. Within its internationally recognized facilities in hydrodynamics, scientific and technical research projects, technological development, innovation, experimentation, certification and service delivery are carried out.

Activities: studies and projects of ships and artefacts; certification of ship speeds and energy efficiency; experimentation and investigation of the hydrodynamic aspects of military, merchant, fishing and sport shipbuilding, by means of tests with models, computational calculations and making use of databases; optimization of the operability of ships and devices, acting on their resistance to advance, design of the propulsion system and its behavior at sea, including studies of safety in extreme conditions.

CENTRE FOR ASTROBIOLOGY. The goal of the Centre for Astrobiology is to search for the origin and evolution of life, as one process within the overall evolution of the Universe. This question is faced from a multidisciplinary point of view. First, we study the origin of the elements and molecules as well as their distribution in the interstellar medium, the formation and properties of planets within other solar systems and their environment. Second, in our labs we investigate the processes that led to the formation and evolution of the first living beings, and their adaptation to different extreme and ever changing environmental conditions. Furthermore, we investigate the environment on other planets, especially on Mars, searching for tracers of any biological activity. For these activities we develop top level instrumentation, both for the simulation in our labs of the conditions in other planets, as for the in situ analysis onboard different space missions.

JOB OPPORTUNITIES 2018-2019

Job opportunities for researchers at INTA are based on national competitive exams of Public Employment Offer. Positions will be announced through the State Official Gazette.

All the job opportunities at INTA will be published at:

http://www.inta.es/opencms/export/sites/default/INTA/es/bolsa-de-empleo/

National Institute for the Agricultural and Food Research and Technology (INIA)

Research areas: Agricultural and Food Research and Technology.
Location: Madrid.
Website: www.inia.es; Contact: sgit@inia.es, ucc@inia.es

The Spanish National Institute for Agricultural and Food Research and Technology (INIA) is responsible for the coordination of agrifood R&D&I programmes at the national level, as well as for the execution of its own research programs, within the State Plan for Scientific and Technical Research and Innovation.

The INIA team is made up of 819 people of whom 667 are involved in research activities. All the activities of INIA are directed towards its contribution to the continued and sustainable progress of the Spanish agricultural and food technology sectors. In addition, the INIA the INIA aims to promote innovation in the Spanish agro-food sector. INIA takes part in a variety of international organisations. Its activities in research, innovation and technology transfer are highly competitive with comparable institutions in Spain and worldwide.

The **R&D&I areas** are:

Plant Production and Protection: : improvement of agricultural productivity and quality through an understanding of the biotic and abiotic factors that limit its potential productivity, and conservation of the genetic resources on which food production depends.

Animal Production and Health: Improvement of livestock productivity and quality through conservation and breeding of the genetic characters of the national herd and improvement of the reproductive processes.

Forestry: Multifunctional management of forest systems, conservation strategies of genetic resources, species adaptability, biomass production for energy use, the sink effect of forestry systems and products and fire prevention.

Food Quality and Safety: Improvement of microbiological safety and nutritional quality of food products, whether plant, dairy or meat, as well as of technological processes.

Environment: Research lines focused on agriculture's environmental impact, including identification and analysis, control, minimisation, usage of raw materials and residues and restoration measures.

JOB OPPORTUNITIES 2018-2019

http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/OfertasEmpleo/Paginas/Introduccion.aspx

The trend of opportunities at INIA for the period 2017-2018 will be of 3 group leaders, 7 recognised researchers, 7 established researchers, and 5 to 8 doctoral trainees.

The new positions expected to be created when the public offer of employment is approved will be in the areas of: Animal, Forestry and Plant Production and Animal health.

For further information, write to this contact: segsgit@inia.es.

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Spanish Institute of Oceanography (IEO)

Research areas: Marine Living Resources and Fisheries, Marine Environment and Environmental Protection and Aquaculture.
Location: Madrid (headquarters).
Website: www.ieo.es; Contact: director@ieo.es

The Spanish Institute of Oceanography (IEO) was officially founded in 1914 (although its origins date back to the 19th century) and was one of the first bodies in the world to fully devote itself to research into the sea and its resources. The IEO focuses on research into marine science, especially in terms of scientific knowledge of the oceans and the sustainable use of its living resources and the marine environment. The IEO also provides scientific advice to the Spanish Government on fisheries policy, the sustainable use of marine resources and on the marine environment and its protection.

The IEO has nine coastal oceanographic centres along the Spanish coast: Vigo, A Coruña, Gijón, Santander, Baleares, Murcia, Málaga, Cádiz and Canarias. The main infrastructures encompass: five experimental aquaculture buildings, five oceanographic vessels equipped with advanced scientific instruments including the Remoted Operated Vehicle (ROV) "Liropus 2000", a network of twelve gauge tide stations, a satellite image reception station and several buoys which continuously register oceanographic data with up to date transmissions.

The Institute counts with more than 30 research groups which are integrated into three **scientific areas**:

Marine Living Resources and Fisheries: the area studies marine living resources their biology and dynamics, and their relationships with the environment and with other marine species and human activities, under the umbrella of an ecosystem approach to fisheries management. This theme aims to achieve a rational and sustainable harnessing of resources, preserve biodiversity and maintain marine ecosystems in good health for future generations to use and enjoy.

Marine Environment and Environmental Protection: the area carries out multidisciplinary and interdisciplinary research on the dynamics of the ocean and oceanographic processes, combining physical, chemical, biological and geological information - to evaluate their influence on the ecosystem, biodiversity and marine living resources. This research theme is also responsible for the monitoring of marine pollution and the investigation of ocean-climate interactions.

Aquaculture: the area focuses on the improvement of production and rearing techniques of species already commercially cultivated (gilthead, bass, turbot, sea bream, sole) and on the evaluation of the potential of new species to be reared and grown in captivity (European hake, bluefin tuna, wreckfish, algae).

JOB OPPORTUNITIES 2018-2019

The IEO is seeking candidates, holding PhD or Degree in Sciences, for the following funded research projects:

- Integrated, innovative and participatory management for the marine Natura 2000 Network in Spain. INTEMARES.
- Operational Program of the EMFF (2017-2020). FEMP-PNDB
- Supporting Implementation of Maritime Spatial Planning in the Northern European Atlantic region. SIMNORAT.
- Supporting Implementation of Maritime Spatial Planning in the Western Mediterranean region. SIMWESTMED.
- Applying a subregional coherent and coordinated approach to the monitoring and assessment of marine biodiversity in Macaronesia for the second cycle of the MSFD. MISTIC-SEAS 2.
- Molecular mechanisms underlying Solea senegalensis reproductive failure: development of new aproaches and treatments to solve F1 reproductive dysfunction. REPROMOL.
- Deep-sea Sponge Grounds Ecosystems of the North Atlantic: an integrated approach towards their preservation and sustainable. SPONGES.
- Role of mixing on phytoplankton bloom initiation, maintenance and dissipation in the Galician rías. REMEDIOS.
- Evaluating and managing connectivity in a network of Marine Protected Areas to maintain genetic diversity and deliver fish beyond protected limits. RESERVE_BENEFIT.
- Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean. BLUEMED.
- Comprehensive study of the dynamics and ecology of North East Atlantic albacore (Thunnus alalunga) population to improve estimates of the status of the North Atlantic albacore stock. ATLANTA7.
- Sustainable management of the natural population of the striped venus clam (Chamelea gallina) and the wedge clam (Donax trunculus), and their associated habitats, in the Gulf of Cadiz. Several positions. VENUS.
- Observatório Costeiro Ambiental do SudOeste/ Coastal Environmental Observatory of the Southwest. Creation of a transboundary operational oceanography structure integrating the in situ observation capabilities in the Southwest Iberia. OCASO.
- MarRisk pretende asegurar un crecimiento inteligente y sostenible de las zonas litorales de Galicia y Norte de Portugal mediante la evaluación de los riesgos costeros más importantes en un escenario de cambio climático. MARRISK.
- Innovation in the Framework of the Atlantic Deep Ocean. IFADO.
- Coordinated Atlantic Coastal Operational Oceanographic Observatory. MYCOAST.
- CleanAtlantic aims to protect biodiversity and ecosystem services in the Atlantic Area by improving capabilities to monitor, prevent and remove (macro) marine litter. CLEANATLANTIC.
- Santander Atlantic Time-Series Station. Comprehension of the different time scales and how they affect the oceanic system. SATS.
- Macaronesian Maritime Spatial Planning – MarSP. Reinforce the Macaronesian (Azores, Madeira y Canarias) Maritime Spatial Plan. MAMAR-SP.
- Management assistant of the Investigation + Development projects of the IEO.
- Observatory of the pelagic ecosystem in the shelf and nearby oceanic waters of NW Spain. RADIALES-20.
- Estudio de la conectividad entre las poblaciones de sardina de áreas del Sur de la Península Ibérica: Métodos genéticos. SARGEN.
- Obtain the biological basic information for the stock assessment of several stocks and functional units (FU) of bottom species from the north-eastern Atlantic. BIOBENTON-4.
- Estudio de la persistencia de sustratos orgánicos en ambientes oceánicos diluidos. POSEIDON.

These and other positions will be announced at the official web site: http://www.ieo.es/web/ieo/trabaja-con-nosotros

In addition, proposals of predoctoral and postdoctoral researchers through public European and Spanish programmes are welcome.

This document compiles information relative to Public Research Organisations with their recruitment opportunities for researchers during last quarter of 2018 and 2019. Further information about other opportunities for researchers in Spain can be found at:

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