

Job Offer

Researcher Position in Bioinformatics

The Institut de Ciències del Mar (ICM) is **the largest marine research centre** of the Spanish National Research Council (CSIC). It is also the first marine science centre to be accredited as a **Severo Ochoa Centre of Excellence**, a recognition to the institution's leadership in the field of marine research in Spain and to its commitment to create social impact.

Our goal is to develop **research of excellence** to inspire a society in harmony with the blue planet, in line with the values of the **United Nations Decade of Ocean Science for Sustainable Development (2021-2030)**.

For further information, please visit our [website](#).

About the role and the team

We are recruiting an enthusiastic and highly motivated **researcher in bioinformatics** at the ICM. The successful candidate will join a dynamic and productive team within the [Department of Renewable Marine Resources](#), which focuses on the study of the biology and ecology of exploited aquatic species, their communities and ecosystems. They will be supervised and report directly to Prof. Jorge [Fernandes](#) and Prof. Francesc [Piferrer](#).

The newly recruited bioinformatician will work on [EPIBROOD](#), investigating intergenerational epigenetic effects in Norwegian salmon aquaculture. This research and innovation project is financed by the Norwegian Seafood Research Fund and comprises an international team of experts in aquaculture epigenetics, along with the leading Atlantic salmon producers Mowi and Benchmark Genetics. The EPIBROOD project will determine whether broodstock rearing environments and maturation practices employed by breeding companies in Norway have substantial intergenerational (parent–offspring) effects on the fish phenotypes. Moreover, we will examine the underlying epigenetic mechanisms in order to identify relevant biomarkers.

Job description

The successful candidate will be involved in several tasks that include:

- Analysis of omics data sets from EPIBROOD partners
- Meta-analysis linking to other project experiments and published data in literature
- Preparation of libraries for next-generation sequencing
- Managing access of lab members to the Marine Bioinformatics platform
- Supporting bioinformatic analyses within the research group
- Dissemination and communication of project findings
- Data management according to FAIR principles
- Preparation of periodic reports for the project coordinator

Expected background and skills

- MSc in Genetics and Cell Biology, or equivalent degree
- Excellent background in i) Aquaculture, ii) Genetic improvement and iii) Omics technologies in animal production, health and welfare
- Documented experience in analysis of RNA-seq, small RNA-seq, EM-seq and ATAC-seq data is an absolute requirement
- Proficiency in the packages DiffBind, HOMER, MethylKit, Bismark, DEseq2 and Bowtie is fundamental
- Ability to write custom scripts in Python, Perl and Java is advantageous
- Effective oral and written communication skills in English
- Very good interpersonal communication
- Organized and with attention to detail and multi-task capacity
- Proactive, flexible, problem-solving and team-player attitudes
- Willingness to travel occasionally

The offer

- Full-time contract for 2 years.



- Salary commensurate with qualifications and experience, consistent with the M3 level of the CSIC pay scale.
- Measures at workplace to reconcile work and family life (flexible scheduling working hours). Read more about work-life balance at CSIC [here](#).
- Highly stimulating environment with support services and professional guidance to enhance career development.
- Recruitment at ICM is open, transparent and merit-based, and all applicants compete on the same terms.

The CSIC and all its research centers were awarded with the "[HR Excellence in Research](#)" seal in 2021. This recognition reflects our commitment to continuously improve our human resources policies in line with the [European Charter for Researchers](#) and the [Code of Conduct for the Recruitment of Researchers](#).

Application procedure

*Can you see yourself as our new researcher in bionformatics? Please send a motivation letter (max. 2 pages) and your CV (max. 4 pages) **no later than September 15th** to:*

jorge.fernandes@icm.csic.es; piferrer@icm.csic.es

Applications will be reviewed upon reception and shortlisted candidates will be invited for an interview.

