

Annex 1

Profile: Researcher

Level: III

Number of positions: 8

Code 01 - 1 unit at the Secondary Office in Ancona (AN), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Innovative fishing technologies to safeguard biodiversity and reduce the impacts of fishing on species and habitats.

Required expertise: At least 3 years of experience in the following fields: development of technical solutions in fishing gear to reduce juvenile catches of commercial species and bycatch of species of conservation interest (Bycatch Reducing Devices - BRDs); planning and conducting scientific experiments and research campaigns at sea; study of the selectivity of fishing gears.

Code 02 - 1 unit at the Secondary Office in Ancona (AN), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Research activities aimed at supporting the adaptive management of biological invasions in the Mediterranean Sea, with particular reference to the fishing system and the elaboration of data of marine non-indigenous species.

Required expertise: At least three years of experience in the management and/or elaboration of ecological data in reference to at least one of the following fields: biological invasions; species distribution models and/or spatial analyses; fishing; management and/or monitoring of wild populations.

Code 03 - 1 unit at the Secondary Office in Ancona (AN), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Technological tools for sustainable fisheries management

Required expertise: At least three years of experience in applied ecology and/or spatial fishery data analysis. The experience gained in the following fields would be an asset: analysis of fishing impacts and fleet dynamics; Big Data Analysis and Machine Learning applied to spatio-temporal data; fisheries monitoring and spatial management of fisheries; geostatistics and bioinformatics tools for the evaluation of fishing effort scenarios.

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Via Vaccara, 61
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Code 04 - 1 unit at the Secondary Office in Ancona (AN), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Impact of recreational fisheries on marine biodiversity.

Required expertise: At least three years of experience in: ecology and ethology of fish species; spatial data analysis; acoustic data processing for marine resource management purposes; conducting scientific fishing surveys at sea.

Code 05 - 1 unit at the Secondary Office in Mazara del Vallo (TP), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Analysis of marine biodiversity, demersal and epimegabenthic communities. Evaluation of anthropogenic impacts on fish stocks, marine assemblages and benthic habitats.

Required expertise: At least 3 years of experience in evaluation of anthropogenic impacts on marine ecosystems. It would be considered preferential research experience in the following: analysis of impacts of bottom trawling fisheries on demersal and epimegabenthic communities; spatial analysis and mapping of species distribution in GIS; application of models to evaluate fisheries resources.

Code 06 - 1 unit at the Secondary Office in Ancona (AN), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Data science for reducing the impact of fishing and supporting marine biodiversity.

Required expertise: At least three years of experience in environmental marine and/or fishery data management and processing. The experience gained in the following fields would be an asset: Open Science; GIS and Spatial Data Infrastructure; multidisciplinary approaches to fisheries management; database development/management; development of hardware/software to support fisheries management; planning and/or execution of research projects and research surveys at sea.

Code 07 - 1 unit at the Headquarters in Messina (ME), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Development and experimentation of low carbon "circular feed" for "One Health" aquaculture.

Required expertise: At least three years of experience in aquaculture. Will be considered preferential the developed expertise in the following scopes: sustainable aquaculture; animal productions and breeding techniques of species interesting for aquaculture; feeding and nutrition in aquaculture (innovative and sustainable feeding); animal experimentation pursuant to Directive 2010/63/EU.

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Code 08 - 1 unit at the Secondary office di Ancona (AN), Institute for Biological Resources and Marine Biotechnologies (IRBIM)

Research activity: Assessment of the impact of emergent human, climate and natural driven threats on marine microbial diversity through molecular and omics-based technologies.

Required expertise: at least three years of experience in the field of microbiology and microbial ecology. Experience gained in the following areas will be considered preferential: microbiology and microbial ecology in the marine environment; application of molecular and/or "-omics" approaches for the study of microorganisms and microbial communities; knowledge of bioinformatics and statistical tools for the study of microorganisms and microbial communities.

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