Position Offered: PREDOCTORAL RESEARCHER

Project: *MarIA - Artificial Intelligence for innovation of methodologies in Marine Conservation*

Technological and scientific fields: Marine Protected Areas, Deep-learning for underwater image analysis, benthic ecology of deep seabeds

Location: Santander, Cantabria, Centro Oceanográfico de Santander (COST, IEO, CSIC), https://www.ieo.es/es/

Research Group/PI: ECOMARG, Elena Prado, www.ecomarg.com

PROJECT SUMMARY

This proposal aims to advance the development of innovative methodologies for the management and conservation of the marine environment through the application of AI techniques, mainly deep learning for underwater images and optimization algorithms and analysis of environmental data. The project is especially focused on biodiversity conservation, protected spaces, and benthic habitats.

PROFESSIONAL PROFILE

Minimum requirements:

- Graduate in Biology or in Marine Sciences
- Master in the field of Marine Biology
- English B2
- 6 months of professional experience related to programming algorithms for marine image analysis

Merits to be considered:

- Python programming knowledge
- Knowledge in Geographic Information Systems
- Experience in developing Deep-learning models applied to underwater images
- Publications, attendance at Congresses, participation in R&D projects

WHAT IS OFFERED

Integration into the ECOMARG research group and the possibility of pursuing a PhD related to the objectives of the contract: Develop methodologies based on image analysis techniques and environmental data for the management and conservation of the marine environment. Applying Deep Learning techniques and optimization algorithms for the analysis of marine environmental data to automate the descriptive and quantitative characterization of different marine ecosystems from data obtained during oceanographic research and evaluation campaigns. Associated training plan having the possibility of taking courses related to the object of the contract.

Contract conditions:

Predoctoral Researcher contract of 4 years' duration. Gross annual salary of 23,871.33 €.

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

Email: elena.prado@ieo.csic.es

Phone: +34 942 29 17 16