

# Position Offered: UNIVERSITY GRADUATE

## Project: *DataLAB*

**Technological and scientific fields:** Advanced techniques in land and ocean observation / Sensorization

**Location:** Esporles, Balears, IMEDEA, [www.imedea.uib-csic.es](http://www.imedea.uib-csic.es)

**Research Group/PI:** DataLAB, Gotzon Basterretxea, <https://imedea.uib-csic.es/servicios/data-lab/>

### PROJECT SUMMARY

The massive acquisition of data along with the increasing complexity of its analysis requires progress in fields such as big-data and artificial intelligence (AI). In the natural sciences (e.g., oceanography, ecology, geosciences), these techniques establish a new paradigm in data management and processing, enabling the combination of multiple data sources and variables from observations, numerical models and alternative sources of information. Among others, they include deep learning models (convolutional neural networks), which are the state of the art in AI, and which allow the detection of complex structures and inferring dynamic backgrounds based on data and associated assimilation schemes. The general objective of this project is to promote the use of advanced data acquisition, management and analysis techniques in the field of life and earth sciences.

### PROFESSIONAL PROFILE

#### Minimum requirements:

Sciences, Mathematics, Computer Engineering, telematics or other degrees for which computational and data processing capabilities are required.

#### Merits to be considered:

Master in Artificial Intelligence, Big Data, Machine Learning, Computer vision or similar. Doctorate. Experience in scientific data management (Data Scientist). English knowledge.

### WHAT IS OFFERED

This project is related to the Digitization and Data Science Service (DataLAB) at IMEDEA. The DataLAB offers support, experience, and training to researchers and projects that require managing and analyzing large data sets, developing computationally efficient models based on data, and integrating mathematical algorithms in their research areas. The person hired will participate in projects on digitalization and data science together with researchers from different fields at IMEDEA. He will take courses and training stays, which will allow him to develop his knowledge and incorporate new analysis techniques. He will also have the opportunity to participate in the center's outreach activities and the training of training and technical personnel.

#### Contract conditions:

Indefinite contract for a University Graduate associated with the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (37.000 € - 41.000 €).

**Start of contract: before 31 December 2024**

### PRINCIPAL INVESTIGATOR CONTACT

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