



## Job offer for researchers, research technicians or research support officers under Chapter 6 allocation

### Job offer

#### Title

90/2022 - Support technician in deep learning algorithms for the detection of marine debris in satellite imagery

### Main researcher

Name: Joan

Last name 1: Duran

Last name 2: Grimalt

Department: Department of Mathematical and Information Sciences

### Contract details

#### Job description

The successful candidate will work on deep learning models for the detection of marine debris. His/her specific objectives will be as follows:

Research and analysis of recent deep learning models for the detection of objects in imagery. - Quantitative and qualitative comparison of the models.

Adaptation of some of the models for the detection of marine debris in satellite imagery.

Training and validation with PRISMA satellite imagery.

Category: R1 - Technical staff

Qualification: -

Field of research: Mathematics

Subarea of research: -

#### Contract type details

Type of contract: Fixed-term

Full/Part-time: Part-time

Hours per week: 20

Work schedule: 09:00-13:00 (horari flexible segons tasques a realitzar)

#### Application submission deadline

From Monday, December 05, 2022 until Tuesday, December 20, 2022

Planned start date: Monday, February 13, 2023

Planned end date of the tasks subject to the contract: Thursday, July 13, 2023



## Research project / Agreement

Type of activity: Project

Funding body: Ministerio de Ciencia e Innovación / NextGenerationEU

Call: Proyectos Estratégicos Orientados a la Transición Ecológica y a la Transición Digital (TED)

Programme: Programa Estatal para Impulsar la Investigación Científico-Técnica y su Transferencia

Reference number / Official code: TED2021-132644B-I00

Number of positions available: 1

## Candidate requirements

### Skills/Qualifications

High school (bachillerato) diploma (science or technology pathway)

### Specific requirements

Advanced knowledge of mathematical optimisation, Python, Pytorch and/or TensorFlow

### Language requirements

B2 level of English

Experience required: -

### Prior experience

-

## Additional information

Monthly salary and benefits: 650,00 €

### Selection process

In accordance with article 8 of the REGULATORY AGREEMENT 145140 of 15th June 2022 that approves the regulation governing the recruitment of research staff under chapter 6 allocation of the university budget, as well as technical or operational research staff.

Consideration of applicants' CVs.

Assessment of academic record, where candidates are currently taking a degree.

Personal interview.

Eligibility criteria:

- Curricular merits in the field (max. 40 points).
- Qualifications in the specialist area (max. 20 points), other (max. 5 points).
- Video curriculum and, if applicable, personal interview (max. 20 points).
- Experience in the field (max. 15 points). E.g.: > 3 years (10 points), < 3 years (5 points).
- Other merits (max. +5 points). E.g.: recommendation letters.

Eligibility threshold: 60 points

### Selection comitee

- i. The relevant Pro-Vice-Chancellor for research (or delegated representative) as chair.
- ii. The supervisor (or delegated representative).
- iii. The members of the Research Area Assessment Committee (CARAI).
- iv. One or more expert members in the topic pertaining to the recruitment and chosen by the chair of the committee, where applicable.
- v. The head of the FORHU (or delegated representative), as secretary, who may speak but not vote.

### Additional comments

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