



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

### Job offer

#### Title

50/2023 - Support scientist to develop new technologies for gravitational wave data analysis at the University of the Balearic Islands.

### Main researcher

**Name:** Alicia Magdalena

**Last name 1:** Sintes

**Last name 2:** Olives

**Department:** Department of Physics

### Contract details

#### Job description

For this call, we are seeking a scientist to support our research in gravitational wave data analysis and more specifically, our involvement in the LIGO Scientific Collaboration, Einstein Telescope and LISA Consortium. The successful candidate will be involved in the following research areas: (LIA-3) 'Gravitational wave experiments and multi-messenger astronomy' and (LIA-8) 'Computing, big data and artificial intelligence' for the 'Advanced technologies for the exploration of the universe and its components' project. In particular they will be involved in: — Improving LIGO-Virgo-KAGRA search pipelines for gravitational wave signals — LVK GW data analysis — Software development for continuous and long-transient gravitational-wave data analysis for present and future detectors (LISA, ET) — Detectability studies.

Research in the Gravitational Physics Group at the University of the Balearic Islands (UIB) spans a wide range of topics, including gravitational wave data analysis, waveform modelling and numerical relativity. The group comprises PIs Alicia Sintes and Sascha Husa, faculty members David Keitel and Jaume Carot, as well as several postdoctoral researchers and PhD students. The group is involved in the LIGO Scientific collaboration, LISA consortium and Einstein Telescope project. For further details, please see <http://grg.uib.es>.

**Category:** R1 - Graduate / Engineer / Architect

**Qualification:** Bachelor's degree or equivalent

**Field of research:** Astronomy

**Subarea of research:** Astrophysics

#### Contract type details

**Type of contract:** Permanent



**Full/Part-time:** Full-time

**Hours per week:** 37,5

**Work schedule:** Flexible

### Application submission deadline

From Friday, March 31, 2023 until Monday, April 24, 2023

**Planned start date:** Monday, July 17, 2023

**Planned end date of the tasks subject to the contract:** Monday, September 30, 2024

## Research project / Agreement

**Type of activity:** Other research funding

**Funding body:** Resolució del conseller de Fons Europeus, Universitat i Cultura de concessió d'una subvenció directa per part de l'Administració de la Comunitat Autònoma de les Illes Balears a favor de la Universitat de les Illes Balears (UIB) per finançar despeses derivades del projecte de l'àrea d'Astrofísica i física d'altres energies Tecnologies avançades per a l'exploració de l'univers i els seus components en el marc del Pla de Recuperació, Transformació i Resiliència, denominat Reforma institucional i enfortiment de les capacitats del sistema nacional de Ciència, Tecnologia i Innovació.

**Call:** Subvenció directa per part de l'Administració de la Comunitat Autònoma de les Illes Balears a favor de la Universitat de les Illes Balears (UIB) per finançar despeses derivades del projecte de l'àrea d'Astrofísica i física d'altres energies 'Tecnologies avançades per a l'exploració de l'univers i els seus components' en el marc del Pla de Recuperació, Transformació i Resiliència, denominat 'Reforma institucional i enfortiment de les capacitats del sistema nacional de Ciència, Tecnologia i Innovació' -- PRTR

**Programme:** Sense especificar

**Reference number / Official code:** -

**Number of positions available:** 1

## Candidate requirements

### Skills/Qualifications

Master's in Physics, Astrophysics or related field.

### Specific requirements

Experience in software development

### Language requirements

Good command of English. No accreditation required.

**Experience required:** 1-4 years

### Prior experience



Experience in gravitational wave data analysis. Member of any gravitational wave international collaboration (LIGO, GEO, Virgo, KAGRA, LISA, Einstein Telescope).

Preference will be given to candidates with expertise in the following topics:

- Experience in software development for gravitational-wave data analysis
- Experience in Python and other programming languages
- Technical skills on version control systems, use of software libraries.

## Additional information

**Monthly salary and benefits:** 2.500,00 €

## Selection process

In accordance with article 8 of 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.

Selection criteria:

- Accomplishments in the field (max. 50 points)
- Qualifications in the specialised area (max. 20 points), other (max. 5 points)
- Video CV and, where applicable, a personal interview (max. 10 points)
- Experience in the field (max. 15 points), e.g.: > 2 years (10 points), < 2 years (5 points)
- Other merits (max. +5 points)

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 FORHU (or delegated representative), as secretary, who may speak but not vote.

## Additional comments

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