



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

Job offer

Title

87/2022 - Postdoctoral position in gravitational wave physics 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 applications for one postdoctoral positions in the area of gravitational wave physics and to enforce our involvement in the LIGO Scientific Collaboration.

The selected person will be involved in the research lines (LIA-3) "Gravitational wave experiments and multi-messenger astronomy" of the project "Advanced technologies for the exploration of the universe and its components". In particular he/she will work on the development and upgradation of the phenomenological waveform models that include precession, higher order modes and eccentricity, particularly studying the various systematics involved using parameter estimation, comparing with numerical relativity waveforms by computing matches, helping with the review tasks and optimizing configuration set-ups for PE studies. He/she will also work towards PE efforts for the O4 detections.

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 consists of 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 see <http://grg.uib.es>.

Category: R2 - Doctor (PhD)

Qualification: PhD or equivalent

Field of research: Astronomy

Subarea of research: Astrophysics

Contract type details

Type of contract: Fixed-term

Full/Part-time: Full-time



Hours per week: 37,5

Work schedule: Flexible

Application submission deadline

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

Planned start date: Monday, May 01, 2023

Planned end date of the tasks subject to the contract: Tuesday, October 31, 2023

Research project / Agreement

Type of activity: Other research funding

Funding body: Govern de les Illes Balears

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

PhD in Physics, Astrophysics or related fields

Specific requirements

Member of any gravitational wave international collaboration (LIGO, GEO, Virgo, KAGRA, LISA, Einstein Telescope). Particular consideration will be given to candidates with an expertise in the following topics: - Experience in software development for gravitational-wave data analysis. - Experience in C, C++, Python programming languages - Technical skills on version control systems (Git), - use of software libraries PyCBC, Mathematica,

Language requirements

English language skills

Experience required: 1-4 years

Prior experience

Experience in gravitational wave physics

Additional information

Monthly salary and benefits: 2.400,00 €



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.

The selection committee will also take into account: - Publications in peer-review journals on topics related to gravitational waves. - Communications at conferences. - Research fellowships.-Postdoctoral experience.

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

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

Additional comments

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Resolution of the Minister of Fons Europeus, Universitat i Cultura granting a direct subsidy by the Administration of the Autonomous Community of the Balearic Islands in favor of the Universitat de les Illes Balears (UIB) to finance expenses derived from the project in the area of Astrophysics and high energy physics. Advanced technologies for the exploration of the universe and its components within the framework of the Recovery, Transformation and Resilience Plan, called Institutional Reform and strengthening of the capacities of the national Science, Technology and Innovation system.

