

25/04/2022



# Codi: RN002256250422 Postdoctoral position in time-domain astronomy, with specialization on large transient surveys and luminous red novae

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Where to apply

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Application Deadline: 01/06/2022 23:00 - Europe/Athens

Contact Details

**Where to send your application.**

**COMPANY**

Universitat de Barcelona

**E-MAIL**

cet3po@gmail.com

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Hiring/Funding Organisation/Institute

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**ORGANISATION/COMPANY**

Universitat de Barcelona

**COUNTRY**

Spain

**DEPARTMENT**

**CITY**

Department of Quantum Physics and  
Astrophysics / Faculty of Chemistry and  
Physics

Barcelona

**STATE/PROVINCE**

Barcelona

**ORGANISATION TYPE**

Higher Education Institute

**POSTAL CODE**

08028

**WEBSITE**

<http://www.ub.edu/opir>

**STREET**

Martí i Franquès 1

**E-MAIL**

[cet3po@gmail.com](mailto:cet3po@gmail.com)

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**ORGANISATION/COMPANY**

Universitat de Barcelona

**LOCATION**

Spain › Barcelona

**RESEARCH FIELD**

Astronomy

**TYPE OF CONTRACT**

Temporary

**RESEARCHER PROFILE**

Recognised Researcher (R2)

**JOB STATUS**

Full-time

**APPLICATION DEADLINE**

01/06/2022 23:00 - Europe/Athens

**HOURS PER WEEK**

35

**OFFER STARTING DATE**

01/10/2022

**EU RESEARCH FRAMEWORK  
PROGRAMME**

HE / ERC

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## OFFER DESCRIPTION

We are offering a 3-year post-doctoral position in time-domain astronomy at the Institute of Cosmos Sciences at the University of Barcelona (ICCUB), Spain. The postdoctoral researcher will join the research group led by Dr. Nadejda Blagorodnova, funded by the European Research Council (ERC) Project CET-3PO.

The group research will focus on the study of the common envelope phase in massive binaries with observations of luminous red novae (LRNe) transients, their progenitors, and their precursor emission. As a member of the research group, the postdoctoral researcher will have

privileged access to data and observational resources from the BlackGEM survey partnership, and will be involved in the large international collaborations of Transients and Variable Stars Science Collaboration (LSST), and ZTF.

The first year of the position will primarily focus on: 1) identification of likely LRNe progenitors in nearby galaxies, and 2) development and optimization of selection strategies for the early detection of LRNe and their precursors from alerts issued by LSST, BlackGEM and ZTF transient surveys. Subsequent research will focus on the coordinated follow-up of LRNe and other astrophysical transients (depending on the interests of the candidate), and the observational multi-wavelength study exploiting the early scientific results of the surveys. The successful candidate will be encouraged to take part in the supervision of master students and/or PhD students.

Applicants must have a PhD in Physics, Astrophysics or related fields, or be on track to obtain it by the time the contract starts. Previous experience in observational astronomy, computational astronomy, astrostatistics, or large transient surveys would be appreciated. Positions can start as early as October 2022, but no later than January 2023. Gross annual salary will be in the range of 40 to 46 k€, depending on experience, with included social security and public healthcare benefits, covering spouse and children. A generous research and travel allowance is also provided.

Applications should be in English, and must include the following:

CV

Publication list

Statement of research interests (max 3 pages)

Two letters of reference. These should be sent directly to [cet3po@gmail.com](mailto:cet3po@gmail.com).

The review process will start immediately, but applications will be considered until the position is filled.

We regard diversity as an asset within a team, and welcome applicants with diverse backgrounds and experiences.

The ICCUB is an interdisciplinary center hosting a vibrant fundamental research program in cosmology, astrophysics and particle physics, with a strong technology unit supporting our participation in international collaborations in observational astronomy and experimental particle physics.

Acronym\*

CET-3PO

**Project title\***

Common Envelope Transients – Progenitors, Precursors, and Properties of their Outbursts

**IP\***

Nadejda Blagorodnova Mujortova

**Department\***

Department of Quantum Physics and Astrophysics

**Gross salary per year\***

40 – 46 k€

**How to apply.****Required documents\***

Curriculum vitae, a publication list, a brief (max 3 pages) statement of research interests, and two letters of reference sent to the provided email address.

Send your application to:

**Email/website\***

cet3po@gmail.com

**Name****email subject\***

CET3PO CODI RN002256250422

## More Information

### ADDITIONAL INFORMATION

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## Eligibility criteria

Suitability of the CV (max 50 points)

PhD in astronomy (30), other discipline (10)

Motivation letter (30)

Experience in the time-domain astronomy >3 years (15 points), <3 years (5 points)

## Additional comments

Duration of the contract of employment: 3 years

The candidate proposed for hiring must accept the job offer within 10 working days from the date of notification of the selection.

Priority will be given to people with disabilities (Law 89/2015 of June 2, reserve of quota 2% in favour of people with disabilities in companies of 50 or more people).

### REQUIREMENTS

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## Offer Requirements

### **REQUIRED EDUCATION LEVEL**

Astronomy: PhD or equivalent

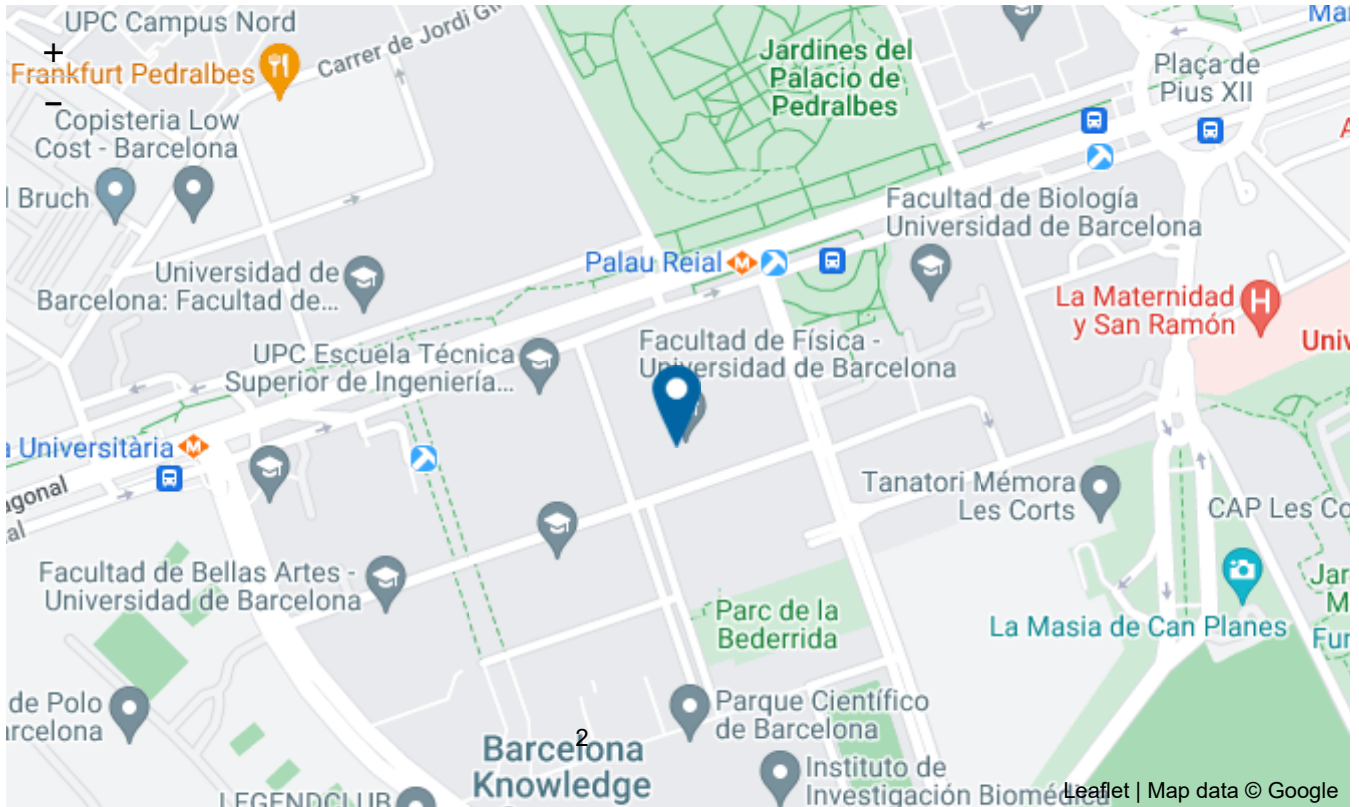
### **REQUIRED LANGUAGES**

ENGLISH: Excellent

## Specific Requirements

Knowledge of programming in python and collaborative software development will be an advantage.

# Map Information



Job Work Location



Personal Assistance locations

## WORK LOCATION(S)

1 position(s) available at  
 Universitat de Barcelona  
 Spain  
 Barcelona  
 Barcelona  
 08028  
 Martí i Franquès 1

## Open, Transparent, Merit based Recruitment procedures of Researchers (OTM-R)

Know more about it at Universitat de Barcelona [↗](#)

Know more about OTM-R

EURAXESS offer ID: 776933

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