



PROCEDIMENT DE SELECCIÓ DE PERSONAL INVESTIGADOR POSTDOCTORAL CONTRACTAT A CÀRREC DE FINANÇAMENT FINALISTA O A CÀRREC DE FINANÇAMENT DE POLÍTIQUES DE LA UNIVERSITAT DE BARCELONA (PROCEDIMENT SIMPLIFICAT)

Euraxess – Job offer

Mandatory*

Optional

Project information

Acronym*	CET-3PO
Project title*	<i>“Common Envelope Transients – Progenitors, Precursors, and Properties of their Outbursts”</i>
IP*	Dr. Nadejda Blagorodnova Mujortova
Department*	Department of Quantum Physics and Astrophysics

Basic information

Job description

Title*	Postdoctoral position in infrared time-domain astronomy - CET-3PO Nº GA 101042610
Offer description* <i>Project description, responsibilities, functions and/or tasks of the position, etc.</i>	<p>We are offering a 3-year (1 year renewable) 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 Prof. Nadejda Blagorodnova, funded by the European Research Council (ERC) Project CET-3PO.</p> <p>The successful candidate will focus on the study of stellar merger transients and their remnants in the NIR and mid-IR wavelengths. To this end, the postdoctoral researcher will lead targeted follow-up campaigns with ground-based and space-based (HST, JWST) facilities, and analyse the observational data with dust radiation transfer codes (e.g. DUSTY, RADMC-3D, DAMOCLES) to derive the formation timescales, composition and mass of dust formed in the remnants. The researcher will also have privileged access to data and observational facilities available to the BlackGEM survey consortium and will be involved in the large international collaborations of Transients and Variable Stars Science (LSST), and ZTF.</p> <p>Applicants must hold a PhD in Physics, Astrophysics, or related fields by the time the contract starts. Previous experience in binary evolution, observational time-domain astronomy, large transient surveys, and modelling of infrared data will be regarded as a plus, as well as the motivation to learn new skills and work independently.</p> <p>Social security and public healthcare benefits, covering spouse and children. A generous research and travel allowance is also provided.</p> <p>Applications should include cover letter, CV, publication list, statement of research interests (max 2 pages), and the details of at least two referees.</p> <p>We regard diversity as an asset within a team, and welcome applicants with diverse backgrounds and experiences.</p>



	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.		
Researcher Profile*	<input checked="" type="checkbox"/>	Recognised Researcher (PhD holder or equivalent, experience more than 4 years, not fully independent)	
Research field* <i>Select one</i>	<input type="checkbox"/>	Agricultural sciences	Educational sciences
	<input type="checkbox"/>	Anthropology	Engineering
	<input type="checkbox"/>	Architecture	Environmental sciences
	<input type="checkbox"/>	Arts	Ethics in health sciences
	<input checked="" type="checkbox"/>	Astronomy	Ethics in natural sciences
	<input type="checkbox"/>	Biological sciences	Ethics in physical sciences
	<input type="checkbox"/>	Chemistry	Geography
	<input type="checkbox"/>	Communication sciences	Geosciences
	<input type="checkbox"/>	Computer science	History
	<input type="checkbox"/>	Criminology	Information science
	<input type="checkbox"/>	Cultural science	Juridical sciences
	<input type="checkbox"/>	Demography	Language sciences
	<input type="checkbox"/>	Economics	Other
	<input type="checkbox"/>		Literature
	<input type="checkbox"/>		Technology
	<input type="checkbox"/>		Religious sciences
	<input type="checkbox"/>		Sociology
	<input type="checkbox"/>		Physiological sciences
	<input type="checkbox"/>		Neurosciences
	<input type="checkbox"/>		Pharmacological sciences
	<input type="checkbox"/>		Mathematics
	<input type="checkbox"/>		Philosophy
	<input type="checkbox"/>		Medical sciences
	<input type="checkbox"/>		Political sciences
	<input type="checkbox"/>		Physics

Gross salary per year*	40.000 €
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How to apply

Required documents*	Application form (annex 3), Curriculum vitae, motivation letter, etc.	
Send your application to:	Email/website*	Instancia genérica (ub.edu)
	Name	
	email subject*	CET-3PO Nº GA 101042610 - Postdoctoral position

Working conditions

Type of contract*	Temporary		
Job status* <i>Select one</i>	<input checked="" type="checkbox"/>	full-time	Hours per week*
	<input type="checkbox"/>	part-time	
Application deadline*	03/05/2024		Job Starting Date*
			01/09/2024

Funding

Is the job funded through a EU Research Framework Programme?* <i>Select one</i>	<input type="checkbox"/>	H2020 / Marie Skłodowska-Curie Actions COFUND	FP7 / People-Maire Curie Actions COFUND
	<input type="checkbox"/>	H2020 / Marie Skłodowska-Curie Actions	FP7 / People-Maire Curie Actions
	<input checked="" type="checkbox"/>	H2020 / ERC	FP7 / Ideas-ERC
	<input type="checkbox"/>	H2020 / EIT	FP7 / JRC
	<input type="checkbox"/>	H2020	FP7



If not, indicate the fund program and organization*	
Science4Refugees*	

Hiring Organisation

Contact Person:	Name	Dr. Nadejda Blagorodnova Mujortova	
	email	nblago@fga.ub.edu	
	Phone		
	Mobile phone		

Work location

Department/Centre*	Department of Quantum Physics and Astrophysics - Institute of Cosmic Sciences of the University of Barcelona		
City*	Barcelona		
Street	Martí i Franqués, 1	Postal Code	08028

Requirements

Required Education Level* <i>Select one</i>	<input checked="" type="checkbox"/> PhD or equivalent	
Skills/Qualifications	Observational time-domain astronomy. Modelling of IR data. Binary stellar evolution.	
Specific requirements	Proficiency in Python programming. Expertise with astronomical data reduction software.	
Required languages	Language	Level
	English	<i>Basic/Good/Excellent/Mother tongue</i> Excellent

Additional information

Website/s for additional job details*	
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Selection process

Eligibility criteria*	<ul style="list-style-type: none"> • Suitability of the CV (max 30 points) • PhD in astrophysics (20), other discipline (10 points) • Cover letter (10 points) • Research statement (20 points) • References (20 points) <p style="text-align: center;">Minimum score to pass the selection process: 75/100</p>
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Selection process	
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Additional comments*

Duration of the contract of employment: 12 months, renewable up to 30/09/2027.

The candidate proposed for hiring must accept the job offer within **5 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).

Be aware that the starting date sets in this offer is an estimate date. The official starting date will depend on the bureaucratic time that will take the preparation of the labour contract and presentation of the necessary documents to be hired by the selected candidate.

For additional information regards this offer, please, contact Dr. Nadejda Blagorodnova Mujortova: nblago@fqa.ub.edu