basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2025_08_03 BCAM International Call

PhD Position in Dispersive PDE and related areas

Job Offer	
Offer	The Basque Center for Applied Mathematics is launching **one PhD position of 4 years** to work on **Dispersive PDE and related areas** under the supervision of Dr. Daniel Eceizabarrena. The candidate will work at the intersection of dispersive PDE, Fourier analysis and probability in problems such as the probabilistic study of dispersive PDE, multifractality, the Talbot effect and wave turbulence. The candidate will be part of the *APDE – Analysis of Partial Differential Equations* research area at BCAM, a dynamic group of senior and junior researchers with a vast range of interests in mathematical analysis and related fields and counting with a large international network of collaborators. The area also cultivates strong ties with the Analysis and PDE group at the Department of Mathematics of the University of the Basque Country (EHU). The candidate will be encouraged to interact and work with other members of the area both at BCAM and EHU, and they will also regularly participate in the research activities of the area like seminars and courses. For reference, the candidate is encouraged to browse the Bilbao APDE website: https://sites.google.com/view/apdebilbao/home. The candidate will be encouraged to attend research conferences and, whenever it is possible, to present their results. It is also expected that the candidate will make one or more short research stays in international research centers or universities. The successful candidate will be offered a contract of four years to work in person in BCAM, located in the center of Bilbao, Spain. The candidate will enroll in the Doctoral Program in Mathematics and Statistics of the University of the Basque Country (EHU), which upon completion of a PhD thesis will grant the corresponding PhD degree. This position is funded by the AEI project PID2024-156169NB-I00 “New challenges and applications in Fourier Analysis”.

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PI in charge:	Dr. Daniel Eceizabarrena
Salary and conditions:	**The gross annual salary of the PhD student will be: 20.258 € - 25.395 € according to experience.** *It will be your responsibility to file your annual income tax return with the Bizkaia Treasure Agency.* Additionally, we offer a moving allowance of up to 500€. Should the researcher have a family at the time of recruitment: 1. 1.000€ gross in a single payment will be offered (you must be married-official register or with children and the certificate to prove it must be sent). 2. 600€ gross per year/per child (up to 2 children) will be offered (the certificate to prove it must be sent). *Free access to the Public Health System in Spain is provided to all employees.*
Nº Positions offered:	**1**
Duration of contract:	**4 years**
Deadline:	**October 3rd, 2025, 14:00 CET (UTC+1)**
How to apply:	Applications must be submitted online at: https://joboffers.bcamath.org

Scientific Profile Requested	
Mandatory requirements:	• Master's degree in mathematics or closely related theoretical field by the date of start.
Scientific profile:	In the selection procedure, we will evaluate: • Solid background in real, complex, and functional analysis. • Solid background in probability. • Interest in dispersive PDE, harmonic analysis and number theory.
Skills and track-record:	• Fluency in spoken and written English.

	• Ability to work both independently and as part of a collaborative research team. • Ability to present and publish research outcomes, both in oral form (seminar and conference talks) and written form (research articles). • Ability to effectively communicate and present research ideas to researchers and stakeholders with different backgrounds. • Good interpersonal skills.

Application and Selection Process	
Formal requirements:	The selected candidate must apply before the deadline online at: https://joboffers.bcamath.org The candidates that do not fulfil the mandatory requirements will not be evaluated.
Application:	Required documents: ▪ CV and academic record ▪ Letter of interest, including research interests ▪ 2 recommendation letters
Evaluation:	Based on the documents provided by each candidate, the committee will qualitatively evaluate: • alignment of the training and career of the candidate to the position offered • recommendation letters • letter of interest • other academic and scientific merits

Date of start:	1st January 2026

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AGENCIA ESTATAL DE INVESTIGACIÓN

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