basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2026_01_01 BCAM International Call

Postdoctoral Fellowship in Quantum Many Body Theory

Job Offer	
Topics:	**The Basque Center for Applied Mathematics is launching one postdoc position of 2 years, to work in quantum many-body theory, in relation to the ERC Starting Grant "FermiMath: The Mathematics of Interacting Fermions", nr. 101040991.** The candidate will be supervised by Profs. Jean-Bernard Bru and Niels Benedikter (University of Milan). The researcher will be employed at BCAM, but an extended stay (of one year, for example) at Niels Benedikter's Institute will also be planned, possibly in split in several periods, depending on preferences of the applicant.
PIs in charge:	Jean-Bernard Bru and Niels Benedikter.
Salary and conditions:	**The gross annual salary of the Postdoc Fellow will be: 30.744 € - 37.331€ depending on the candidate's years of experience.** *It will then be the Postdoc Fellow own responsibility to make their yearly income declaration at the Bizkaia Treasury Agency.* Additionally, we offer a moving allowance of 1000€ (Spain) or 2000€ (rest of the world). Should the student have a family at the time of recruitment: 1. 2.000€ 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. 1200€ 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**
Contract and offer:	**2 years**
Deadline:	**March 1st, 2026, 14:00 CET (UTC+1)**
How to apply:	Applications must be submitted on-line at: https://joboffers.bcamath.org

Scientific Profile Requested	
Requirements:	• Promising young researchers. • Applicants must have their PhD completed before the contract starts. • The post holder will not be required to do any teaching but if desired he/she can deliver short courses, of his/her choice, at Ph.D. level. Also, if desired, the post holder can be involved in supervision of graduate students. The organization of scientific events will be also strongly encouraged. • The researcher must be prepared to spend an extended period (one year, for example) at Niels Benedikter's Institute, possibly in split in several periods, depending on preferences of the applicant.
Skills and track-record:	• Good interpersonal skills. • A proven track record in quality research, as evidenced by research publications in top scientific journals and conferences. • Demonstrated ability to work independently and as part of a collaborative research team. • Ability to present and publish research outcomes in spoken (talks) and written (papers) form. • Ability to effectively communicate and present research ideas to researchers and stakeholders with different backgrounds. • Fluency in spoken and written English.Ability to present and publish research outcomes in spoken (talks) and written (papers) form.

	• Ability to effectively communicate and present research ideas to researchers and stakeholders with different backgrounds • Ability to integrate within the local research network.
Scientific Profile:	The preferred candidate will have one of these scientific backgrounds: • Research experience and interest in mathematical studies of quantum many-body problems (fermionic and bosonic cases). • Knowledge of functional and convex analysis, operator algebra and quantum statistical mechanics.

Application and Selection Process	
Formal Requirements:	The selected candidate must have applied before the application deadline online at the webpage: https://joboffers.bcamath.org The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile.
Application:	Required documents: ▪ CV ▪ Letter of interest ▪ 2 recommendation letters ▪ Statement of past and proposed future research (2-3 pages)
Evaluation:	Based on the provided application documents of each candidate, the evaluation committee will evaluate qualitatively: the adaption of the previous training and career to the profile offered, the recommendation letters, the main results achieved (papers, proceedings, etc.), the statement of past and proposed future research and other merits; taking in account the alignment of these items to the topic offered.

Incorporation:	**As son as possible**

basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2026_01_01 BCAM International Call

This position is co-funded by BCAM (50%) and the ERC nr. 101040991 (50%)

EXCELENCIA SEVERO OCHOA

CEX2021-001142-S/ AEI/10.13039/50110001103

erc

European Research Council
Established by the European Commission