

- **IC2024 10 01 Postdoctoral Fellow in Algebraic Geometry and/or Commutative Algebra**

The Singularity theory and Algebraic geometry group (STAG) at BCAM-Basque Center for Applied Mathematics and the Algebra, Geometry, Topology and Number Theory group (AGTZ) at Johannes Gutenberg University of Mainz are looking to fill a 2-year postdoctoral position under the supervision of Javier de Bobadilla, Ilya Smirnov at STAG and Manuel Blickle, Duco van Straten at AGTZ.

This position is funded by the joint AEI-DFG grant (BL 1072/3-1 “Classical singularity theory meets positive characteristic methods”) and the applicant is expected to actively engage in one or more of the projects outlined in the above mentioned DFG/AEI proposal. The fellow is expected to spend one year at JGU Mainz and one year in Bilbao. The position has no travel duties and some travel funds will be provided.

A potential fellow is expected to have background in commutative algebra or algebraic geometry interpreted accordingly to the directions pursued by the PIs. Our main selection criterion will be research excellence, but we will take into consideration if the applicant’s background or interests overlap with directions pursued in our research groups.

Salary: The gross annual salary of the Fellowship will be 55.556,88€ at JGU and 29.994€ - 36.420 € at BCAM according to experience.

Contract: 1 year at JGU + 1 year at BCAM

Incorporation: Flexible, by October 1, 2025

Deadline: January 13th, 2025, 14:00 CEST

More information about the position at: <https://joboffers.bcamath.org/apply/ic2024-10-01-postdoctoral-fellow-in-algebraic-geometry-and-or-commutative-algebra>

- **IC2024 10 02 Postdoctoral Fellow in Mathematical Analysis and related areas**

The Basque Center for Applied Mathematics- BCAM, is launching one Postdoctoral position of two years, in Mathematical Analysis and related areas, under the supervision of Dr. Mateus Sousa, and Dr. Luz Roncal.

The position is meant for a recent PhD (obtained a PhD degree after 1st of January of 2023) with strong research promise and a strong background in harmonic analysis. The future researcher will join the Harmonic Analysis and Inverse Problems line at BCAM, working under the supervision of Dr. Luz Roncal and Dr. Mateus Sousa, mainly funded by the project PID2023-146646NB-I00 “Optimality in Harmonic Analysis and Related Areas”.

We are looking for a candidate with strong research promise and a solid background in harmonic analysis, and an interest in its connections to other areas such as PDEs, approximation theory and number theory.

The candidate will also have the opportunity to interact and work with a research group with a good balance of younger and more established researchers with a vast collective range of interests in mathematical analysis and related areas, as well as a large network of collaborators spread across different countries. The group also cultivates strong ties with professors from the University of the Basque Country (UPV/EHU), especially the ones which

are part of the mathematical analysis and applications research group. Participation in the community research activities will be expected during the contract, but at the same the future postdoc will receive full support to establish an independent research program.

Salary: The gross annual salary of the Fellowship will be 29.994€ - 36.420€ at BCAM according to experience.

Contract: 2 years

Incorporation: Flexible, but no later than 1st of September of 2025

Deadline: November 29th 2024, 14:00 CEST

More information about the position at: <https://joboffers.bcamath.org/apply/ic2024-10-02-postdoctoral-fellow-in-mathematical-analysis-and-related-areas>

- **IC2024 09 02 Postdoctoral Fellow on Brain Dynamics**

The Basque Center for Applied Mathematics- BCAM, is launching one Postdoctoral position of one year, to Developing theoretical and computational models for brain dynamics, on Mathematical Neuroscience, Computer Science and Topological Field Theory. We offer a Postdoctoral position to work on Brain Dynamics, under the supervision of Ikerbasque Prof. Serafim Rodrigues.

The position will be for one year at the Basque Center of Applied Mathematics, funded by BERC, with the possibility of renewal for one more year based on funding availability and research progress of the selected candidate.

The project will incorporate several theoretical knowledge in Algebraic Topology, Topological Field Theory, Quantum theory, Computer science, Contextual Emergence and will develop novel mathematical framework to explain observables of brain dynamics.

We are looking for a promising researcher with a background in working in Neuroscience. a proven track record of publications, and Ph.D. in Computer Science, Mathematics, Physics, or related fields, and at least one year of postdoctoral experience

The candidate will also have the opportunity to interact and work with other researchers, and will be part of a research group with a good balance of younger and more established researchers with a vast collective range of interests in Neuroscience and related areas, and counts with a large network of collaborators spread across different countries.

If you are a passionate about Mathematics, and Neuroscience and eager to embark on a research career at BCAM, this opportunity is for you. Apply now and become part of our dedicated team at BCAM.

Salary: The gross annual salary of the Fellowship will be 29.994€ - 36.420€ at BCAM according to experience.

Contract: 1 year

Incorporation: Flexible, but no later than January of 2025

Deadline: November 30th 2024, 14:00 CEST

More information about the position at: <https://joboffers.bcamath.org/apply/ic2024-09-02-postdoctoral-fellow-on-brain-dynamics>