

BCAM Internship Position Announcement

The following BCAM Internship position is open at BCAM – Basque Center for Applied Mathematics, an interdisciplinary research center located in Bilbao, Basque Country – Spain. The interested applicants can apply via the following webpage: <http://www.bcamath.org/en/research/internships>. It is strongly recommended to apply at least 3 months before the expected starting date.

INTERNSHIP DATA	
Research topic title:	Crossover operators for permutations
Research topic description:	Evolutionary algorithms are optimization algorithms which are inspired on the natural selection of the species. They can be used in permutation problems (those in which the solutions are represented as permutations, such as the Travelling Salesman Problem, TSP). A common strategy consists on adapting to the permutations space operators for problems on real vectors. This project will consist on developing new, purely combinatorial crossover and mutation operators for permutation based problems.
Keywords:	evolutionary computation, discrete optimization, permutations, combinatorics.
Required knowledge and skills:	programming, Python or C preferably
Required language skills¹:	English
Duration and dates:	3 months, as soon as possible
Covered expenses:	To be negotiated
Application deadline:	20th of July (or until the position is filled)

SUPERVISOR DATA	
upervisor:	Ekhine Irurozki, Aritz Perez, Carlos Fonseca
Research line:	Data Science
Email:	eirurozki@bcamath.org

1 Note that English is the official language at BCAM.

