

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:	Towards novel AI methods for Drug Discovery.
Research topic description:	This project will leverage upon recent advances that merge Artificial Intelligence (AI) techniques with a number of mathematical methods (e.g. Geometry, Algebraic Topology, Graph Theory, Partial Differential equations) to screen for novel drugs with high therapeutic efficacy against several diseases (e.g. Alzheimer’s disease). The envisaged drug discovery platform will be modular since each module will be dedicated to solving a particular aspect of the drug discovery pipeline. The student(s) will help develop key modules of the platform and will be able to test their developed module on real bio-molecular data sets. This internship programmed will provide students with valuable experience and will give insights as to how their skills can have a social and technological impact.
Keywords:	Machine learning, Generative Adversarial Network, Deep Learning, Geometry, Algebraic Topology, Graph Theory, Partial Differential.
Required knowledge and skills:	We seek a number of final year student(s) with strong background in Computer Science (average grade above 7/10) or with an MSc. The student(s) should have strong programming skills (e.g. Python, C) and should have working knowledge of software programming environments, debugging skills, version control and deployment softwares. Moreover, the student should be interested in Artificial Intelligence and Mathematics
Required language skills¹:	English (written and spoken)
Duration and dates:	3 Months from Starting Date
Covered expenses:	To be negotiated
Application deadline:	7 th September

¹ Note that English is the official language at BCAM.

