

PhD Fellowship Available

(former FPI program)

Molecular Mechanics Of The Cardiovascular System

Centro Nacional de Investigaciones Cardiovasculares Carlos III (F.S.P.) - CNIC



We are looking for a highly motivated and enthusiastic candidate to join the Molecular Mechanics Of The Cardiovascular System Laboratory, led by **Jorge Alegre-Cebollada** at the National Institute of Cardiovascular Research (CNIC) in Madrid, Spain.

We are a multidisciplinary team of scientists who **investigate how mechanical forces determine muscle function at the molecular, cellular, tissue and organismal levels**. Our motivation is to improve the understanding, diagnosis and treatment of cardiovascular and musculoskeletal diseases. We combine the latest **single-molecule manipulation techniques** (Atomic Force Microscopy and Magnetic Tweezers) with complementary **computational methods**. To provide biological context to our results, we also measure **mechanics at the level of cardiomyocytes and myocardial preparations** and take advantage of our expertise in **protein biochemistry and molecular and cell biology**. In our pursue of biological contextualization, we have recently expanded the range of mechanical manipulation of proteins to **living cells and animals**. For more information, please visit:

<https://www.cnic.es/en/investigacion/molecular-mechanics-cardiovascular-system>

CNIC is the leading cardiovascular research institute in Spain. For more information about CNIC's predoctoral program, please visit:

<https://www.cnic.es/en/convocatoria/predoctoral-program>

We welcome **candidates** that are interested in a multidisciplinary approach to science independently of their background. **Interested candidates should be holding a Master degree** and must apply through the CNIC web in the following link:

<https://www.cnic.es/es/convocatoria/investigadora-predoctoral-para-laboratorio-dr-jorge-alegre>

We also welcome informal inquiries, which can be sent to jalegre@cnic.es

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