

ARISTOS & Cure Heart and Brain-Postdoctoral fellowship candidate (2024)

Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain

We are looking for a highly motivated postdoctoral researcher candidate to develop a project in the Inherited Cardiomyopathies Laboratory led by Prof. Pablo Garcia-Pavia at CNIC (Madrid). We offer incorporation via the Postdoctoral **ARISTOS** Fellowship Program (<https://postdoc.aristos.com>) or the **Cure Heart & Brain** Fellowship Program (<https://www.cnic.es/es/noticias/join-cnic-through-cure-heart-and-brain-cofund>).

ARISTOS as well as **Cure Heart & Brain Programs** aims to train highly-qualified and forward-thinking researchers in various promising fields of Biomedicine. It will provide researchers with the opportunity for international, intersectoral, and interdisciplinary research under working competitive conditions. Open, transparent, and merit-based recruitment procedure.

This information does not contain a job offer. Interested candidates will also need to apply officially through the official web application for the postdoctoral program.

Description of the project: The postdoctoral scientist will participate in an ambitious and innovative project aimed to *understand the mechanisms that lead to phenotype expression in familial (genetic) dilated cardiomyopathy*. For this, the candidate will *apply deep-learning and developing tools to analyse large databases of biological parameters and genetic data of large cohorts of patients with Dilated cardiomyopathy (DCM)*. It is intriguing why despite the advances in genetic field, a genetic cause is still only detected in less than 40% of the families with DCM. Furthermore, the group has identified that patients with DCM have different prognosis according to underlying genetics. Therefore, the group is focused in identifying new mechanisms that could explain the cause of the disease in the unsolved group of patients and in developing new tools to predict patients' prognosis by combining large amount of genetic and clinical data. This position provides a unique opportunity to carry out cutting edge bioinformatics with translational applications in clinical cardiology within a dynamic and international academic environment.

ARISTOS & Cure Heart & Brian offer a 3-year contract. ARISTOS also provides Mobility, Family and Travel allowance.

Starting date: Cure Heart & Brian Starting: January 2025. ARISTOS June 2025.

Requirements: In addition to the ARISTOS and Cure Heart & Brian requirements,

- PhD in Bioinformatics, computational biology or related areas.
- Not resided in Spain for more than 12 months in the 3 years before deadline.
- Experience working with WGS/WES data.
- Strong publications record according to his/her career stage with ≥ 3 publications in internationally peer-reviewed journals
- Excellent programming and scripting skills, with deep knowledge of Python, statistical modelling methods and the normalization and integration of omics data.
- Competent in the use of HPC queue systems
- Outstanding fluent communication skills in written and oral English.

For more information see:

About the group: <https://www.cnic.es/es/investigacion/miocardiopatias-hereditarias>

About the CNIC: <http://www.cnic.es/en/cnic/index.php>

Please if you are interested send your CV, academic record and at contact details of reference to: Pablo Garcia-Pavia (pablogpavia@cnic.es).

How to apply: Follow the instructions described in the official webs:

<https://postdoc.aristos.com> Deadline, 30 September 2024

<https://www.cnic.es/es/noticias/join-cnic-through-cure-heart-and-brain-cofund>

November 2024

Deadline, 30