

CALL FOR A RESEARCH FELLOWSHIP
Fellowship Reference GIMM/BI/10-2025

Gulbenkian Institute for Molecular Medicine (GIMM) opens a call for one research fellowship under the project *“CENTAUR - Creating and refining whole-genome and core-genome typing schemas for pathogen surveillance”*, with the funding support from ISIDORE Joint Research Activities, European Union.

Scientific Area(s) Bioinformatics.

Fellowship recipients / Admission requirements: Any National, foreign and stateless candidate(s) that fulfill the necessary conditions to be enrolled in a PhD can apply.

Applicants must hold the following requirements:

- Hold a Master's degree in the areas of Bioinformatics, Microbiology, Biology, Health Sciences, Informatics, Biochemistry, Biomedical or related areas, with an emphasis on genomic data analysis, phylogenetic analysis or population biology;
- Enrollment in a doctoral program in Bioinformatics, Computational Biology, Microbiology, or related fields;
- Proficiency in working with the Linux operating system;
- Strong scripting skills in bash;
- Proficiency in English.

Although not mandatory selection criteria, the following will be considered an advantage:

- International experience of the candidates;
- Experience with Python programming;
- Experience working with high-throughput sequencing data;
- Experience working on bacterial population genomic analysis.

Work Plan and Objectives:

- The selected candidates will join a multidisciplinary team within the Project, aiming to develop and apply high-throughput sequencing data analysis pipelines for bacterial identification, virulence factors, and antimicrobial resistance, as well as analysis methods and visualization of phylogenetic relationships incorporating other metadata.
- Active participation in the development of new analysis methods, specifically improving whole-genome multilocus sequence typing schemes;
- High-throughput sequencing data analysis for the characterization of outbreaks and microbial population evolution in both hospital and community settings;
- Analysis of high-throughput sequencing results for phylogenetic and population structure analyses of human pathogenic bacteria;
- Development of tools that generate analysis reports usable by epidemiologists and other healthcare professionals without advanced bioinformatics knowledge.

Legislation and Applicable Regulation: Estatuto do Bolseiro de Investigação (Lei n.º 40/2004, de 18 de agosto, republished in attachment to Decreto-Lei n.º 202/2012, de 27 de agosto, changed by **Decretos-Leis n.º 123/2019, 28 de agosto e n.º 65/2024, 1 de outubro**) and current Regulation of Fellowships of GIMM.

Predicted start date, duration and renewal conditions: The fellowship contract is predicted to start in March 2025, for a period of 3 (three) months on an exclusive basis, eventually renewable until the maximum stipulated in applicable regulations, not exceeding the eligibility period of the project (expected to end on July 31, 2025).

Work place and Scientific orientation: The research activities will be developed at Molecular Microbiology & Infection Lab of GIMM, under the supervision of Mário Ramirez.

Non-discrimination and equal access policy: GIMM undertakes to ensure compliance with the principles of non-discrimination and equality and to that extent, provides that no candidate can be privileged, benefited, harmed or deprived of any right or exempted from any duty due in particular ancestry, age, gender, sexual orientation, marital status, family status, economic status, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic disease, nationality, ethnic origin or race, place of origin, language, religion, political or ideological convictions and trade union membership.

International environment and experience: Diversity is a fundamental aspect of the essence of GIMM, where researchers and non-researchers of different nationalities, backgrounds and areas of study work together, promoting the exchange of experiences and interactions, contributing to the personal and professional development of each person and to the existence of an international, inclusive and stimulating environment.

Research Fellows Support Centre: The Research Fellows Support Centre works everyday from 09:00AM to 11:00AM at People & Culture Unit Office.

Fellowship financial conditions: The fellow will benefit from a monthly stipend in the amount of €1259.64. The amount will be paid by wire transfer at the end of each month. The fellow will also benefit from a personal accident insurance to execute the proposed research activities as well as the right to Social Security through Voluntary Social Insurance regimen, if wanted, under the terms of Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social, and the contributions costs will be supported by the research project.

Application documents: - Motivation Letter; - Detailed CV; - MSc certificate; - Contacts of 2 references. ***The non-compliance with these requirements determines the immediate rejection of the application.*** In case the applicant does not have yet the required degree certificate, a declaration of honor stating the conclusion of the necessary qualifications for the purposes of this process will be accepted and must be sent by the end date of the call.

Jury evaluation and selection: The applications will be evaluated by a jury consisting of Dr. Mário Ramirez (FMUL/GIMM), Dr. Catarina Costa (FMUL/GIMM), and Dr. Marcos Pinho (FMUL/GIMM).

Selection methods: Curriculum evaluation (50%) and interview (50%). The curriculum evaluation will take into account the aforementioned criteria, and all candidates who achieve a score higher than 30% will be selected for an interview.

Deadlines and application process: The call will be open **from January 30 until February 12, 2025.** Applications should be submitted to People & Culture Unit, through the email positions@gimm.pt. ***The non-compliance with these requirements determines the immediate rejection of the application.***

Notification of results: Within 90 days after the termination of the applications submission deadline, both admitted and excluded candidates list and final classification list shall be communicated to all admitted candidates through email.

Preliminary Hearing and Final Decision Deadline: After notification, all candidates have 10 working days to respond. Panel's final decisions are pronounced within a period of 90 days, from application deadline.

Fellowship contracting: The Fellowship is granted through the signature of a contract between GIMM and the selected fellow and after the fellow send the following mandatory documents: copy of identification document (in case of non-European citizens is mandatory the work visa / valid resident permit), document proving the required academic degree and the document proving the enrollment in a PhD study cycle.

For each Fellowship period an Activity Report must be prepared by the fellow as well as the Report by the supervisor.

Lisbon, January 29 2025

The Executive Comitee of GIMM
Professor Maria Manuel Dias da Mota

