

CALL FOR APPLICATION

Sandwich-PhD in Chemo-Informatics / Bio-Infomatics / Computational Chemistry

Within the framework of the GLACIER DAAD network, an eight-month-residence research scholarship (with possibility of prolongation for the following years) is to be awarded at one of Germany's top research institutions at IPB Halle in cooperation with Charité Berlin on the topic:

"Chemoinformatic Survey of Bioactive Central-American Natural Products".

The successful candidate will have a keen interest in generating tools for the extraction and analysis of scientific data, i.e. a basic knowledge of informatics, programming (e.g. in Python), text and data mining, analytical tools including ML- or KI-based methods, and ideally also in chemistry, pharmacy, medicine, botany or a related subject. However, informatics students interested to venture into medicinal chemistry related scientific applications are also highly welcome.

We expect you to communicate in English and participate in GLACIER events (conferences, trainings, summer schools).

The earliest start date of the fellowship is 01.03.2022, the latest 01.05.2022.

Eligible persons are only students or employees of the GLACIER consortium member institutions in Central America or Cuba (for details on eligible countries see our webpage: <https://glacierproject.org/>). Remuneration will be paid according to the scholarship award regulations of the DAAD (1.200 €/months plus flight costs in economy class).

About GLACIER

GLACIER - German-Latin American Centre of Infection & Epidemiology Research & Training is a large network encompassing 35 partners in total including leading higher education institutions, research institutes and public stakeholders from eight Latin American countries as well as eight institutions from Germany. GLACIER represents the fusion of the Berlin-led research on pandemics, and the Halle-led research on immunology and bioactive compounds and five additional expert groups from Germany. Central GLACIER real labs are located at UNAM, Mexico City, and the University of Havana, Cuba. In close partnership, these scientific institutions follow a holistic "One Health" approach for research, training and public outreach. Various disciplines - from virology, vaccine development and drug discovery research to social sciences - cooperate with national and international institutions involved in preventive health care, vaccine and drug

discovery, and pandemic control. GLACIER is funded by the German foreign Office (AA) through the German Academic Exchange Service (www.daad.de). Thus, DAAD rules apply for all scholarships granted through GLACIER. The consortium issues student scholarships and research stays for scientists (north-south and south-north exchange) as well as exchange between central Latin-American partner countries (south-south exchange), including summer schools and on-site training courses.

Host: Leibniz Institute for Plant Biochemistry (IPB)

The Leibniz Institute for Plant Biochemistry (IPB) is a public top level research institute of the Leibniz Association. It is located on the Weinberg Campus of the Martin-Luther-University in Halle (Saale), Germany. The Department of Bioorganic Chemistry headed by Prof. Dr. Ludger Wessjohann focuses on the isolation, characterization and development of bioactive compounds and their selective targeting and release. This position will be seated in the computational chemistry subgroup. <https://www.ipb-halle.de/en/research/bioorganic-chemistry/>

For a lead publication in the field from our group see here:

<https://www.pnas.org/doi/10.1073/pnas.1915277117>

Who can apply:

- current PhD students of synthetic organic chemistry (master in chemistry or a related science completed)
- -active or employed in one of the LatAm partner institutions with the following requirements:
 1. fluent in (scientific) English or in German
 2. belongs to the best quartile of students as certified by supervisor or statistics
 3. commitment of student and LatAm supervisor to accept co-supervision and task agreement by host (v.i.) and to complete and defend the PhD thesis latest mid 2025
 4. accept the rules of DAAD, the host institution and good scientific practice in general
 5. will provide reports, presentations, and full documentation by the time set by the host, latest by Jan. 2024.

Please send your application as pdf (< 10 MB), quoting the ID **GLACIER_IPB_IT**, only by email to **glacier@ipb-halle.de** by February 15th, 2023, providing: (1) a tabular CV, with home and institutional contact data, (2) a motivation letter not longer than ca. ½ page, (3) a max. 2-page research plan ideally coordinated with local & German supervisor, including a GANTT-chart. In addition, and send independently from your application, your supervisor must provide a reference letter send from his or her institutional address. Supervisor letters from private addresses (e.g. yahoo accounts) are not acceptable, unless the supervisor has registered it before with GLACIER.