

External job advertisement Reg. no. 5-9849/25-D

Within the PhenoPren project, in the field of “Digitalization of plant value chains”, the Martin Luther University Halle-Wittenberg, Faculty of Natural Sciences I, Institute of Pharmacy is seeking to fill the position of a

Research Associate/Postdoc (m-w-d)

in full time. The period for this fixed-term position will be 01.01.2026 until 31.12.2028.

Remuneration will be paid up to pay group 13 TV-L, depending on the tasks assigned and fulfilment of the personal requirements.

Tasks:

- Expression of genes in various expression systems (mainly in yeast).
- Enzymatic screening and optimization of enzymatic reaction conditions of individual enzymes or enzyme cascades.
- Metabolic engineering of yeast
- Fermentation of yeast strains in small and large scale (bioreactor)
- Extraction and analysis of chemical compounds (mainly phenolic compounds) from fermentation broth
- Mining of genes and biosynthetic gene clusters from transcriptome or genome data
- Enzyme engineering via mutagenesis studies
- Writing scientific manuscripts, e.g. publications and project reports as well as presentation of research findings at international scientific meetings
- Supervision of young scientists and students in project related context

Requirements:

- Completed scientific university degree in pharmacy, biotechnology, biochemistry, chemistry, engineering, or a comparable field
- Doctorate desirable
- In-depth knowledge of molecular biology and protein chemistry/enzymology methods, preferably with membrane-bound enzymes
- Extensive experience in the field of enzyme and metabolic engineering and genome editing
- Good knowledge of fermentation processes in bioreactors
- Knowledge of bioinformatics and gene function analysis is desirable
- Knowledge of natural products chemistry and natural products purification from microbial and plant sources is an advantage
- Knowledge of computational chemistry is an advantage
- Good experience in (preparative) chemical analysis methods (especially HPLC-MS)
- Experience in writing scientific publications in renowned journals with very good written and spoken English
- Willingness to work in an interdisciplinary environment, good communication and teamwork skills

Applications from severely disabled persons with equal aptitude and qualifications will be given preference. Women are strongly encouraged to apply. Applicants with a degree that was not obtained at a German higher education institution must submit a Statement of Comparability for Foreign Higher Education Qualifications from the Central Office for Foreign Education (<https://www.kmk.org/zab/central-office-for-foreign-education>) as proof of equivalence.

The position is based at the Institute of Pharmaceutical Technology and Biopharmacy, Working Group on Biotechnological Product Processing (Prof. Dr. M. Pietzsch; <https://downstream.pharmazie.uni-halle.de/>). If you have any questions, please contact Dr. Mohamed Nagia, tel.: +49 (0)345 55-25952, e-mail: mohamed.nagia@pharmazie.uni-halle.de.

Please send your application stating the reg. no. 5-9849/25-D as one PDF document with a letter of motivation, CV, copies of diplomas and contact details of two references by 27.09.2025 to Martin Luther University Halle-Wittenberg, Dr. Mohamed Nagia, email: mohamed.nagia@pharmazie.uni-halle.de. Incomplete applications will not be considered.

The call for applications is subject to any budgetary restrictions.

Application costs will not be reimbursed by Martin Luther University. Application documents will only be returned if a sufficiently stamped envelope is enclosed. An electronic application is welcome.