Philipps Universität Marburg

registration number: fb15-0043-wmz-2024

Entry date:	Application deadline:	Salary:	Duration:	Volume of employment:
as soon as possible	**2024-12-22**	**E 13 TV-H**	**3 years**	**part-time (65 %)**

The University of Marburg, founded in 1527, offers a variety of excellent programs of study for around 22,000 students and confronts the important topics of our time through excellent research across a broad spectrum of sciences.

The Department of Chemistry, research group on “chemical biology”, Prof. Dr. O. Vázquez is currently accepting applications for a third party financed

Doctoral Researcher/PhD

The position is offered for a period of 3 years, if no former times of qualification must be considered. The starting date is as soon as possible. The position is part-time (65 % of regular working hours) with salary and benefits commensurate with a public service position in the state Hesse, Germany (TV-H E 13, 65 %).

Tasks:

- scientific services in research and development of own research with a high degree of independence
- design and conduct multistep organic synthesis of dyes (BODIPYs and rhodamines)
- design and synthesis of tools capable of generating on-demand reactive oxygen species (ROS) for chemical manipulation of chloroplasts
- photochemical characterisation (quantum yields, ROS quantification, etc.) and implementation of split-protein approaches for ROS generation

  biological techniques: cell-based experiments, microscopy, proteomics

- scientific communication (written and spoken) in an international environment and supervision of students (teaching service Bachelors and Master students)

The position is limited to a time period deemed adequate for the completion of a doctoral degree. As part of the assigned duties, there will be ample opportunity to conduct the independent scientific research necessary for the completion of a doctorate. The limitation complies to § 2, 1 WissZeitVG.

Profile:

- MSc-degree or equivalent in chemistry, biotechnology, pharmacy or biochemistry with a focus on multistep organic synthesis of photosensitive molecules (BODIPYs and rhodamines) and photochemistry in the context of chemical biology
- strong theoretical and practical background in organic chemistry (dye chemistry)
- experience with biological techniques
- interest in understanding biological processes at the atomic level
- self-driven & passionate team player

Disposition to own scientific qualification (e. g. a doctorate project in the area of chemical biology with a focus on chemical-biological tools for ROS generation in chloroplasts) is expected.

We actively support the professional development of junior researchers by the offers of Marburg Research Academy (MARA), the International Office and the Higher Education Didactics Office.

We offer:

- multidisciplinary training in the frame of our LOEWE project which involves research groups in chemistry, biology, pharmacy and Max Planck (MPI-TM)
- individual and personalized supervision during your PhD degree program
- state-of-the-art installations
- international environment
- a collaborative team with exchange of results among all the LOEWE RobuCop groups (conferences, retreats, etc.)
- ticket for free use of public transport in the state Hesse, Germany

Contact for more Information

Prof. Dr. O. Vázquez

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We support women and strongly encourage them to apply. In areas where women are underrepresented, female applicants will be preferred in case of equal qualifications. As a certified family-friendly university, we support our employees in balancing family and career. A reduction of working time is possible. Applicants with a disability as discribed in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal

qualifications. Application and interview costs can not be refunded.

Please apply by 22nd December 2024 using the application-button below.