

## Job Offer

The Helmholtz-Institute for Pharmaceutical Research Saarland (HIPS), Department Microbial Natural Products, is seeking a

### **Master student in the field of organic semi synthesis (m/f/d)**

The Helmholtz Institute for Pharmaceutical Research Saarland (HIPS) focusses on identifying and developing new treatment options for infectious diseases with an emphasis on natural product research. Research in the department Microbial Natural Products (MINS) is aiming to identify, investigate and optimize novel natural product based actives, applying diverse approaches and methods mainly from the fields of biotechnology, microbiology, molecular biology, and biochemistry. HIPS was jointly started in August 2009 by the HZI in Braunschweig and Saarland University on Campus Saarbrücken. In 2015, HIPS moved into a new 4500 m<sup>2</sup> research building in which currently 180 international researchers work. HIPS represents the first and only publicly funded extra-university research unit in Germany dedicated to pharmaceutical research. HIPS collaborates with universities and various industries both nationally and internationally.

#### **Your tasks:**

One research focus of the department Microbial Natural Products is the isolation, characterization, and physicochemical optimization of myxobacterial secondary metabolites. You will apply medicinal chemistry-based methods for the targeted modification of complex natural products. In addition, you will generate modified microbial natural products via chemical synthesis.

This includes the development and optimization of reactions tailored for specific antimicrobial substances as well as synthesis of probes for target identification. A further goal is the modification and optimization of selected antimicrobial compounds, e.g. compounds with activity against TB or other bacterial diseases. The developed compounds will be used in various tests (biology and ADMET/PK), and you will have the opportunity to perform MS analysis of biological material, e.g. blood after compound treatment. Your work will be led by an experienced synthetic post-doc chemist who will help you with your thesis work.

#### **Your profile:**

We are looking for a master student in synthetic organic chemistry having a profound knowledge in medicinal chemistry. The applicant must be proficient in designing and planning medicinal chemistry-based compound optimization of complex molecules. Expertise in the synthesis of small natural product libraries using modern synthetic techniques, e.g. late stage modifications, is an advantage. Experience in working at the interface of pharmacy, medicinal chemistry / molecular modelling and molecular biology and is another advantage. We expect the candidate to be proficient in oral and written English, and we are looking for a good team player, who is excited about working in a cross-cultural and interdisciplinary team, covering the domains of biology, chemistry, pharmacy and biotechnology.

Equal opportunities are part of HZI's personnel policy. Severely disabled applicants will be favored if they are equally qualified. Place of work is **Saarbrücken**.

**Starting date:** As soon as possible

**Location:** HIPS Saarbrücken

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For further information related to the position, please contact Dr. Walter Hofer at [Walter.Hofer@helmholtz-hips.de](mailto:Walter.Hofer@helmholtz-hips.de).

Please send your application referencing job offer in a single pdf document containing a current CV, motivation letter (up to one page) and relevant certificates to the e-mail address above.