

The mission of the Berlin Institute of Health (BIH) is medical translation: transferring biomedical research findings into novel approaches to personalized prediction, prevention, diagnostics and therapy and, conversely, using clinical observations to develop new research ideas. The aim is to deliver relevant medical benefits to patients and the population at large. The BIH is also committed to establishing a comprehensive translational ecosystem as translational research area at Charité – one that places emphasis on a system-wide understanding of health and disease and that promotes change in the biomedical research culture. The BIH is funded 90 percent by the Federal Ministry of Education and Research (BMBF) and 10 percent by the State of Berlin. The two founding institutions, Charité – Universitätsmedizin Berlin and Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC), were independent member entities within the BIH until 2020. As of 2021, the BIH has been integrated into Charité as the so-called third pillar; the MDC is privileged partner of the BIH.

The Hedtrich lab at BIH is looking for a

### PhD in Biomedical Engineering (f/m/d)

The Hedtrich lab will be located in the just recently inaugurated research building Kaethe-Beutler-Haus on Berlin-Buch campus which is in close proximity to clinical departments, the MDC, and the FMP. The Hedtrich lab is a young and enthusiastic group looking for people willing to shape an innovative research line at the BIH. Our focus is on tissue engineering, drug delivery and nanomedicine, and we are strongly involved in the development of new therapeutic approaches for the treatment of epithelial diseases. Research projects within the lab are highly interdisciplinary and routinely require intensive collaborations with groups from other disciplines.

#### Job description:

The project aims to unravel the contribution of extracellular matrix remodeling in atopic diseases such as atopic dermatitis. Atopic dermatitis is the most common skin disease worldwide and often harnesses the onset of other atopic diseases such as allergic asthma. The underlying mechanism is still elusive. Recent data from the Hedtrich lab point towards aberrations in extracellular matrix (ECM) components and extracellular matrix remodeling as a potential contributor which will be investigated further using bioengineered epithelial disease models that emulate the progression of atopic diseases in a human-based setting. This project is further embedded in the Collaborative Research Consortium 1340 "Matrix in Vision". Hence, the successful incumbent will work in a very interdisciplinary setting with clinicians, physicists, chemists and biomedical engineers to capture and visualize ECM-related changes in atopic diseases.

#### Requirements:

- Applicants should have a MSc or Diploma in a field of the Life Sciences such as pharmaceutical sciences, biochemistry, molecular medicine or a related field.
- Experience in cell culture, biomolecular methods, or tissue engineering are considered an asset.
- very good written and verbal communication skills
- Personal attributes of an ideal team member: high level of honesty and integrity, robust work ethic and accountability, demonstrated initiative, adaptability in a rapidly changing landscape, a creative and curious problem-solver, commitment to engendering a harmonious work environment and strong emotional intelligence.

The successful candidate is expected to publish manuscripts as a first author, and to present their data at conferences and lab meetings.

#### We offer:

- A varied job in a forward-looking research institute,
- A temporary position with 25,35 hours/week (65%),
- Remuneration up to E13 TVöD VKA: The grouping takes into consideration the qualifications and the personal circumstances of the candidate
- Additional benefits customary in the public sector (including annual bonus, VBL),
- 30 vacation days per year (with a five-day week) and up to 24 floating days per year.
- Appointment duration: 3 years
- Family - friendly, flexible working hours for better work-life balance

#### We live diversity!!

BIH strongly encourages qualified women to apply. Applications from people with an immigrant background who meet the hiring requirements are expressly encouraged. Severely disabled applicants and those with equal status will be given preferential consideration in cases of equal suitability.

Please submit your application via the BIH Career portal <https://jobs.bihealth.org> by **14.04.2022**, quoting the **reference number BIH-132.22**. We are looking forward to hear from you!

You can find more information about BIH at

[www.bihealth.org/en/](http://www.bihealth.org/en/)