

Deutsches Herzzentrum der Charité  
Institut für kardiovaskuläre Computer-assistierte Medizin, Labor für Biofluidmechanik  
Augustenburger Platz 1 | 13353 Berlin

## **Student Assistant Position / Bachelor Thesis / Internship (m/f/d) – Support in the Development of a Novel Filling System for Precise Injections**

### **Background**

At the Biofluid Mechanics Laboratory of the Deutsches Herzzentrum der Charité, we develop new medical devices and measurement techniques to improve patient care. One of our current developments is the Puringe – an innovative, silicone-oil-free syringe adapter for intravitreal injections and sensitive therapeutics. The adapter reduces contamination, improves dosing accuracy, and minimizes medication waste.

We are currently seeking support for the further development of a filling system for Puringe to optimize its practical applicability and precision.

### **Position Overview**

As a Student Assistant, Intern or Bachelor Thesis candidate, your focus will be on practical construction and prototyping tasks:

- **Rapid Prototyping & Hands-on Work:**  
Perform frequent hands-on tasks and rapid iterations using 3D printing to optimize the filling system.
- **Experimental Testing:**  
Plan, set up, and evaluate experimental tests to validate functionality and user-friendliness.
- **Documentation:**  
Create test protocols, presentations, and technical reports to document results.

### **Candidate Profile**

We are looking for motivated, independent, and hands-on students with:

- **Educational Background:** Enrolled in a technical degree program (e.g., Mechanical Engineering, Medical Engineering, Engineering Science, or related fields).
- **Technical Skills:** Proficient in CAD software (e.g., SolidWorks) and experienced in mechanical design. Enjoy hands-on work, tinkering, and practical tasks—ideally with experience in 3D printing.
- **Work Style:** Self-initiated, structured, and solution-oriented mindset. Team player with interest in working in a dynamic, interdisciplinary environment (MedTech startup).

### **What We Offer**

- Close collaboration with the Puringe development team.
- Practical insights into medical device development and work in a research environment with a startup character.
- Access to modern infrastructure (3D printers, workshop, test labs).
- Flexible working hours and the possibility of partial remote work (by arrangement).
- Opportunity to directly contribute results to an innovative medical product.
- Regular mentoring by the Puringe team.

### **Supervision & Conditions**

- Start: Flexible, ideally immediately or by arrangement.
- Language: English or German.
- Location: Charité – Deutsches Herzzentrum der Charité (Campus Virchow-Klinikum), Berlin.
- Compensation: Student Assistant position according to TV Stud III (approx. 15 €/hour)

### **Contact & Application**

If you are interested, please submit:

- Motivation letter (max. 1 page),
- Current transcript of records,
- CV

by June 15, 2026, to:

Felix Hehnen

 [felix.hehnen@dhzc-charite.de](mailto:felix.hehnen@dhzc-charite.de)