

Fraunhofer CMI
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Internship: Microfluidics/Instrumentation

Internship start: 1 January 2017

Fraunhofer CMI – Center for Manufacturing Innovation – conducts advanced R&D and engineers solutions for a broad range of industries including biotechnology/biomedical, manufacturing and renewable energy. Our services include high precision automation systems, biomedical instruments and devices, and process management and consulting.

Responsibilities and learning opportunities:

As an intern for microfluidics/instrumentation you will work on developing a prototype for a bacterial analytical device with Dr. Sauer-Budge as your supervisor.

Your main tasks will be:

- Evaluating the current prototype and characterizing future improvements
- Redesigning the prototype
- Assembling the new prototype, including pneumatic and electrical circuits, and programming the process logic for an Arduino.

What we expect:

- A good academic record in mechanical engineering, biomedical engineering or similar field
- Experience with electrical circuits and machining abilities are ideal
- Ability to accept a high degree of responsibility in a team-based organization, combined with the ability to work independently
- Intercultural competences and motivation to integrate into American culture
- Excellent verbal and written communication skills in English
- Proficiency in MS Word, Excel, PowerPoint
- Experience with Creo/ProE, Arduino programming languages is a plus.

What you can expect from us:

- Opportunity to acquire practical research experience through own responsibilities and the integration as a fully respected member in our team
- Housing in a shared apartment with other interns, and a monthly stipend.

To apply:

Please send a cover letter, resume, transcripts, and any letters of recommendation to Dr. Alexis Sauer-Budge at asauerbudge@fraunhofer.org