

## R&D Intern Application Development Vibro-Acoustic Sensor 100%

### Your Profile

- BSc or MSc student in engineering or physics
- Knowledge of signal processing and statistical data analysis an advantage
- Programming skills in Python
- Interest in laboratory work & manual dexterity
- Good knowledge of German or English

### Your Responsibilities

Sensirion offers you many exciting challenges every day and a comprehensive insight into the development of new sensor solutions in a high-tech company. Together with highly motivated and interdisciplinary teams, you will set new standards in the field of sensor technology. You are part of a newly formed, dynamic project team with the goal of a complete new product development. Your future supervisor, Alexander (Project Leader) tells you what to expect during your internship.

#### What are the specific tasks?

Together with your colleagues you will work on the application development of our newest sensor. In concrete terms, this means that you will independently plan, perform, evaluate and document measurements in realistic settings (test bench, field test). One focus of your work will be on signal processing and the interpretation of the vibro-acoustic measurement data. As part of a team, you will prepare the acquired data ("preprocessing"), analyze it in the time and frequency domain, identify patterns, extract suitable characteristic values ("features"), and visualize them in dashboards.

To fulfill this versatile task, you will combine a deep understanding of our sensor technology with knowledge of the subsequent application as well as a feeling for the individual needs of our customers. For this we are looking for enthusiastic engineers who are data enthusiasts like us. Previous experience in signal processing and statistical data analysis is an advantage, but not mandatory.

#### What are the daily challenges?

Within the scope of our project, a novel sensor technology is being developed, the fundamentals of which are currently being investigated and optimized. A central part of this process is application-oriented testing. Creativity, independence and the contribution of your own ideas are explicitly desired. During your internship you will be part of the interdisciplinary development team and will be able to work intensively on your focus project. This allows unique insights into the different topics of our development process and promotes independent work in an industrial environment.

### Your Contact

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