

About IDUN Technologies AG

IDUN is a swiss based ETH-Spinoff founded in November 2017. The startup develops and manufactures customizable dry electrodes for the integration in next-generation wearable devices. IDUN's electrode portfolio – Dryode™ - comprises flat, micro- and macro-structured electrodes for optimal wearer comfort, signal quality and motion artifact reduction. The patent-pending microstructure technology provides self-adhesive properties opening the doors to further applications and markets.

We work with customers across a wide range of applications within the MedTech, Health, Wellness & Fitness and Wearables industries. Our customizable electrodes enable new levels of quality, allow for more freedom in device designs and increase the level of comfort for the end user. Our customers are based in the US, China and Europe. Currently, customers are startups, research groups and corporates developing new products.

Our team comprises 6 FTEs with various backgrounds in biomedical and material processing, engineering, polymer chemistry, IT, electronics and programming as well as financing.

For more details please visit www.iduntechnologies.ch.

Internship

Length: min. 12 Weeks, targeted start date: September 2019

Description

During your Internship you will support the IDUN engineering team by helping to develop a protocol for quality testing of electrode prototypes. The work aims to improve the reproducibility of test series to better assess the signal quality of electrodes for direct comparison between designs. Past testing included looking at the material properties of the electrodes and taking data from human subjects directly. Your task will improve the validity and significance of performed tests and have influence on the overall product development of the company.

Tasks

- Create a skin model that gives consistent results over time (the setup)
- Develop a testing procedure that compares the signal quality of electrodes at rest and in motion (the characterization) and eventually underwater, during sleep etc. (the application)
- Create a matrix in which information on each electrode is included. This information provides potential customers with valuable insights and supports them in product selection.

Qualifications

You are a Bachelor – or Master level Student in Material Sciences MATL and have practical experience working in a lab and basic knowledge of data analysis with MATLAB. You should have a hands-on mindset, a precise way of working, critical way of thinking and be able to work independently. Hard-to-beat Töggeli skills will be a benefit.

Please send your application to contact@iduntechnologies.ch. It should include a CV and a motivation letter (max. one page).