Are you an enthusiastic and talented sensor or electronics engineering student with an interest in biomedical products?

You will be joining the Innovation Team Oral HealthCare R&D department at Philips Drachten. An impactful multi-disciplinary team of experienced and passionate professionals, that works with internal and external teams from all over the globe.

Assignment

Your task is to investigate and develop a proof-of-concept prototype for an innovative oral and systemic health application related to broader health indicators and oral comfort based on sensor technology and electronics, including a suitable user interface. The student could consider which optical sensing method(s) may be relevant, define high-level requirements, and evaluate an early proof of concept.

Description of assignment

- Literature Review: Explore existing technologies for systemic health parameters and their biomedical relevance.
- Concept Development: Define design requirements, constraints, and user needs for a device indicating relevant trends in systemic health.
- System Design: Develop a functional architecture for the sensor system including power supply, safety features and suitable UI.
- Prototype Building: Create and test a simplified prototype to verify the functionality and usability of the sensor system.
- Might include some form of consumer research or expert opinion on concepts and prototype(s) to evaluate the user acceptance of the application.
- Evaluation: Assess performance to the requirements and propose improvements for user experience.

We have two main project tracks. The exact focus can be further discussed and defined by the student in collaboration with our team. You are in the lead!
Please note that the subject is highly confidential and requires signing of NDA like agreements. Presentations might need to be adapted in case they are required to be presented to a general audience.

We are looking for:

Bachelor or Master student who is pursuing Sensor / Electronics engineering or related fields and will work on the project for at least 5 months.

To succeed in this role, you have the following skills and experience:

- Affinity with biomedical device design and consumer health technologies.
- Professional skills in English (written and verbal).
- Team player, passionate about results and people.
- Skills in sensor technology and electronics, CAD design, prototyping, and experimental design.
- Hands-on mentality, creative and result driven.
- Student open to learn a lot of new competences, like technical subjects, research, development, consumer research, international cooperation in a large-scale company etc.
- Able to work mainly on site (Drachten) for at least 3-4 days per week.

You will be part of:

In Drachten you'll find one of the largest innovation sites of Philips globally. With over 2000 colleagues from over 35 different nationalities, it's an inspiring environment for you as a young talented intern. At Philips Drachten some of the best consumer product developers in the world work together to create innovative products with excellent end-user experience.

Our offer

Philips Drachten could be the start of your promising career, with lots of opportunities to develop yourself locally or internationally in different sectors of our company. At Philips you work for an employer whose activities have a major positive impact on people all over the world. You also get:

- Opportunity to strengthen your capabilities and knowledge.
- Dedicated substantial support and guidance from an experienced supervisor and support from several professionals and departments.
- You will receive an internship allowance.
- Within Philips you get the opportunity to expand your professional network.

Contact

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We look forward to receiving your CV and a motivational letter describing your ambitions for at least the next 3–5 years.

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