Introduction

Philips Drachten is a leading innovation and manufacturing site, driving key advancements that shape the future of Personal Health. At this location, consumer-focused products are developed and produced, improving the lives of millions of people worldwide, including shavers, beard trimmers, epilators, and electric toothbrushes. The Drachten site is home to approximately 2,000 employees, including more than 600 developers representing over 35 nationalities.

You will join the Oral Healthcare R&D Innovation Team at Philips Drachten, a highly impactful multidisciplinary group of experienced and passionate professionals. Working closely with internal and external partners across the globe, the team is dedicated to developing innovative solutions that help consumers achieve better oral health.

Assignment Description

The objective of this internship is to develop a plaque model that mimics the relevant characteristics of human dental plaque in a safe, reproducible, and suitable way.

During the internship, the following activities will be carried out*:

1. **Research the relevant properties of human dental plaque.**
2. **Research state-of-the-art plaque models.**
3. **Define the design requirements and evaluation criteria.**
4. **Develop and produce a plaque model based on the defined requirements.**
5. **Test, evaluate, and validate the model against the defined requirements.**

Target Output

A validated plaque model that:

1. Closely mimics the properties of human dental plaque.
2. Can be applied easily and reproducibly.
3. Is based on materials and methods that are globally accessible.

Candidate Profile

A Bachelor’s/Master’s internship/graduation student currently pursuing a degree in

Biomedical Engineering, Biology, Physics who will work on the project for minimum 5 months. To succeed in this assignment, the following skills and experience are ideal:

- Skills in Laboratory work
- Mechanics of Material
- Biology and Physics Background is a plus
- Good and active communication skills

Contact

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