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 contribute to the development of a **framework** that links toothbrush design inputs, bristle mechanics, and measurable cleaning-related outputs. The work will focus on developing experimental methods and measurement tools.

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

1 Literature investigations.

2 Refinement of the theoretical model.

3. Development of new measurement methods.

4. Experimental work to validate the theory.

Target Output

A validated model for Dental Cleaning Mechanism that enables:

- Development of a tool that can measure the forces and movement of interest.
- Link the forces and movement of interest to cleaning performances.

Candidate Profile

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

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

- Mechanics and Dynamics
- Optical Imagining Analysis
- CAD design
- Sensor Technology
- Mechanical properties of materials (Surfaces interaction)
- Good and active communication

Contact

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