Are you the enthusiastic, talented Biomedical engineering and/or Mechatronics engineering we're looking for?

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. You get the opportunity to work on an important tool to validate innovative brushing technology concepts to improve consumer's mouth health.

Description of assignment

The assignment consists of the following parts:

- Define design requirements, specifications and constraints for the test tool
- Based on a standard laboratory x, y, z robot, create control software for it to mimic several brushing methods. This also includes design of a suitable UI.
- Create an extension to the robot which enables control of the brushing forces applied
- Add a camera system which evaluates the brushing results.

Main required technical skills:

- Robotics, including dynamics and control theory
- Programming in preferably Python
- CAD design for creating additional components
- Hard- and software design for controlling additional components, e.g. for Arduino boards
- Sensors and actuators
- UI design
- Vision algorithmes

The exact assignment(s) 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 confidential and requires signing of NDA like contracts. Presentations might need to be adapted in case they are required to be presented to a general audience.

We are looking for:

A Master/Bachelor internship student who is pursuing Biomedical engineering, Mechanical engineering or Robotics and who will work on the project for at least 5

months.

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

- Affinity with robotics and the biomedical and consumer field.
- Programming, preferably in Python
- Professional skills in English (written and verbal).
- Team player, passionate about results and people.
- Hands-on mentality and result driven.
- Likes to create test tools and devices based on robotics.
- A solid background in the above-mentioned subjects.
- Students 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 are looking forward to receive your a CV and a motivational letter containing your ambition as you as you see it now, for at least the coming 3 -5 years.

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