Internship at Philips Consumer Lifestyle

About the organisation
Philips Drachten ([http://www.drachten.philips.com/](http://www.drachten.philips.com/)) is the largest innovation and manufacturing site within Philips Consumer Lifestyle. Approximately 600 R&D engineers are involved in a wide range of product categories, such as, Shaving & Grooming, Kitchen Appliances, Beverages (Senseo), etc.

Philips has a reputation of manufacturing high quality electric shavers. At the Function & Technology Department (FTD) we strive to gain knowledge and develop experimental and simulation tools for optimizing shaving function. The work done in this department is at the forefront of shaving innovation and has a direct impact on the shavers Philips produces, such as the recently released 9000 series shaver with its new V-track shaving system.

Internship assignment
Simulating the interaction between shaver and skin

Location
Drachten

Date
Starting as soon as possible; 3-9 months

Key area of responsibility
The skin, its properties and characteristics are truly extraordinary, yet they remain poorly understood. The aim of this project is to improve our understanding of the interaction between skin and shaver.

Our specific interest is to develop a numerical model of the skin and perform simulations to understand how properties of the skin and shaver design mechanically influence each other. You will be challenged in leading your own research, thinking about the simulation setup, conducting it and performing the data analysis. You are experienced in finite element methods (preferably MSC.Mentat) and proficient in data analysis (e.g. Matlab). You enjoy doing in-depth research. Your communicative skills are strong and you enjoy making connections between related fields of research.

The simulations will be done in-house. You will be supported by experts within the department that will guide you in understanding and linking your work to the shaving development. You will be part of the development team and will experience what research in a large industry means and what working in such environment can bring you.

Candidate Profile

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<tr>
<th>Preferred education</th>
<th>Biomedical Engineering, Mechanical Engineering</th>
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<tbody>
<tr>
<td>Preferred level</td>
<td>University, Master level</td>
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