Future of textiles: flexible electronics for wearable devices

Description
The market for wearable sensors and smart textiles continues to grow beyond only smart watches. This brings various challenges with it, including reaching the needed technical requirements, such as electrical conductivity, as well as ensuring a wide-spread acceptance of the new products. In the field of smart wearables, the comfort during product use is of major importance. Since currently no single test exists in order to quantify this aspect, various standardized textile analyses can be combined to get an overall understanding of the relative comfort of wearables.

Your tasks
As part of your project, you will develop a method that can quantify the comfort of such smart wearables. This can be done by evaluating the various existing textile analysis methods, rating them for relative importance and combining them to result in one final factor which defines the comfort of a textile. This factor will be used to rank different textiles for future products and projects at ITA.

Benefits
- Independent work and flexibility
- Interdisciplinary work experience
- Immediate project start

Contact:
Jeanette Ortega, M.Sc.
Tel. 0241 / 80 22101
Jeanette.ortega@ita.rwth-aachen.de

Address:
Institut für Textiltechnik der RWTH Aachen
Otto-Blumenthal-Str. 1
52074 Aachen