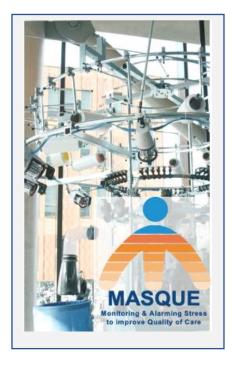**SAXION** UNIVERSITY OF APPLIED SCIENCES

INTERNSHIP/FINAL THESIS MASQUE –
KNITTED STRESS DETECTING SENSOR GARMENTS

The goal of the MASQUE project is to develop a garment with integrated sensors that can detect stress in people with impaired cognition, such as dementia patients. Together with recognized research and industry partners we look as well at the smart textile itself, but also at the implementation in the caregivers environment. The project group has a multidisciplinary character with project reserchers from different backgrounds (medicine, exact sciences, social sciences and technology

At the Sustainable & Functional Textiles group we are developing a garment with integrated electrodes using the Santoni Circular knitting machine. Based on input from the aimed users and sensor experts we will develop prototypes in an interative way. Your would be to support us in the prototype development and therefore you will work together with us on the Santoni Circular Knitting machine at Saxion.

TASK DESCRIPTION
- You will work at the knitting lab in the Epy Drost building on the development of the sensor garment. This garment will be tested and evaluated and tested by experts within the MASQUE consortium
- Collaborate with material experts, designers, and textile engineers within research group, but also the whole project team (Mentech Innovation, Fontys UAS, TU/e, Leiden University Medical Center) is open for collaboration and support of your research.

PRACTICAL INFORMATION
- **Student profile:** Fashion & Textile Technologies or Innovative Textile Development student with an interest in smart textiles and medical textiles; Either as an internship or graduation research
- **Contact person(s) for this assignment:** Carlos Kuhlmann (**j.c.kuhlmann@saxion.nl**)
- **Research group Sustainable and Functional Textiles: saxion.edu/sft**