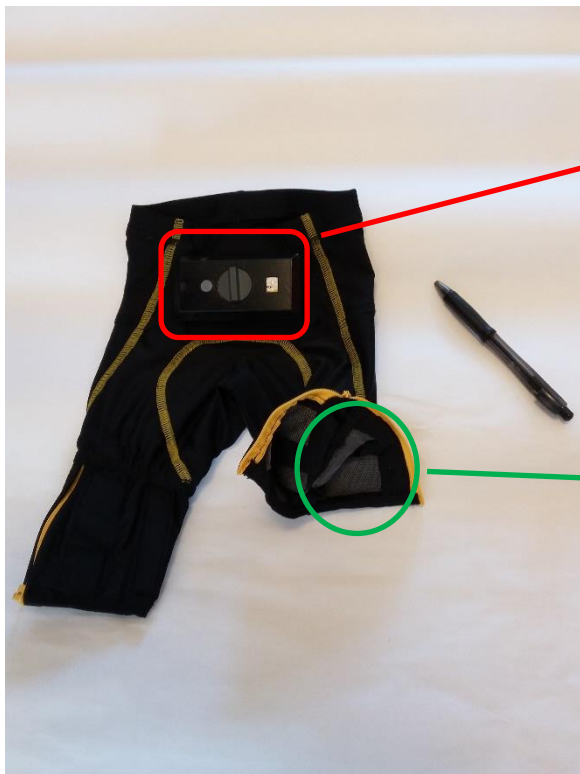


## BSc-project for students in Biomedical Engineering, DTU/KU

Title: Activity monitoring of infants and young children using EMG shorts

Description: The company Myontec manufactures pants/shorts with built-in EMG sensors for monitoring activity in children and adults during daily-life activities. This project focuses on testing the products on infants and young children to evaluate the practical possibilities and limitations on this group. As part of the project, the student(s) will acquire data from a small number of infants using the products by Myontec and post-analysis should indicate the quality of the acquired data. The post-analysis can both include subjective measures as well as objective comparisons with state-of-the-art EMG-systems.



Recording unit

EMG sensors

Required qualifications: Knowledge of; EMG data acquisition and analysis, Matlab or similar, statistics

Responsible institution: University of Copenhagen

Contact information: Anina Ritterband-Rosenbaum, Ph.d., [arr@elsassfonden.dk](mailto:arr@elsassfonden.dk)

Allowed no of students per report (1-2): 1-2

KU supervisor: Jens Bo Nielsen, Professor, dr.med., Ph.d.