Roessingh Research and Development (RRD) is looking for an independent graduate student who can perform recordings and analyses of the movement behavior of older and younger cyclists.

BACKGROUND In the Netherlands, the bicycle is an important means of transport for all age groups. Frequent use of the bicycle is good practice, because cycling contributes to the health and quality of life. However, older cyclists have an increased risk of falling with the bicycle and sustaining an injury. Recent studies focus on cycling behavior and causes of cycling accidents, but still little is known about the underlying personal accident mechanisms.

ASSIGNMENT The purpose of this study is to characterize and quantify balance strategies of young and older cyclists during different cycling activities. The cycling activities include getting on and off the bicycle, straight cycling, cornering and looking backward over shoulder. In a second step, it is studied whether physical and cognitive characteristics are related to cycling kinematics and balance strategies of the cyclists. Cycling data are already available, but several additional measurements need to be made to evaluate balance supporting devices.

Students may begin between November 2014 and January 2015. Are you interested to participate in (part of) this research? Please contact us and check out the possibilities!

For students
• Movement analysis, Kinesiology
• Biomedical Technology
• Engineering studies with clinical interest

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