

DISCOVER THE 5 REVAL TECHNOLOGY PLATFORMS AT UHASSELT!

REVAL Research Center, affiliated to the Faculty of Rehabilitation Sciences at Hasselt University (Belgium) focuses on interdisciplinary and technology-supported research within rehabilitation, with attention to clinical applications. With the patient at the heart of its mission, REVAL aims to enhance functioning, health, and overall well-being. REVAL's expertise spans nine overarching research themes, supported by five cutting-edge technology platforms. These state-of-the-art facilities serve as a catalyst for groundbreaking research projects and international collaborations, driving fundamental research to innovation and real-world clinical applications.

Don't miss the chance to discover REVAL's Technology Platforms and be inspired by the future of rehabilitation.

- 1) At REVAL's **Motion Lab**, we provide cutting-edge solutions for human movement analysis, from low-tech to high-tech. Our state-of-the-art facility assesses and optimizes mobility for all—children, older adults, patients, and elite athletes.

We specialize in gait and balance assessments, diagnostics, and tailored therapy and training. The platform's highlight is MOVElab - the most advanced biomechanical lab in continental Europe (CAREN high-end).



- 2) At the **Muscle & Exercise Lab**, we specialize in personalized, evidence-based exercise prescriptions for clinical populations. Our approach integrates muscle screening, functional and structural assessments, and advanced exercise physiology testing, primarily in chronic patient populations.
- 3) The **NeuroChronometrics Lab** specializes in advanced neurophysiology measurements and analysis. Using cutting-edge brain stimulation and imaging techniques, we explore the complex relationship between brain function and motor performance in diverse populations.
- 4) The **Psychophysiology Lab** explores the complex link between psychological and physiological processes. We focus on symptom perception, interoceptive accuracy,



proprioception, and stress reactivity, using experimental paradigms to better understand how individuals perceive and respond to bodily sensations and environmental stimuli.

- 5) The **TechnoRehabLab** is a leading center for education and innovation in rehabilitation technology. Our mission is to provide a hands-on space where educators, clinicians, companies, and students can explore and experience the latest advancements designed to enhance rehabilitation practices.



Focus and learning objectives

This guided tour provides an exclusive insight into cutting-edge research and technologies in human movement analyses, rehabilitation, neurophysiology, and psychophysiology. Through interactive demos and expert insights, participants will learn about the latest innovations shaping the future of rehabilitation. By the end, attendees will have a clear understanding of how these labs drive advancements in research, (rehabilitation) healthcare, and technology.

Estimated Timeline of the Program

Thursday July 3rd 2025

14.30 – Travel from Maastricht to the Diepenbeek Campus of the Hasselt University

15.30 – Welcome

Dean of the Faculty Prof. Dr. Raf MEESEN, Assoc. Prof. Pieter MEYNS and Assoc. Prof. Lotte JANSSENS

15.45 – Guided Lab tour in small groups

17.45 - Reception

19.00 - Travel back to Maastricht

People Involved:

Assoc. Prof. Pieter MEYNS, PhD and Assoc. Prof. Lotte JANSSENS, PhD and other REVAL affiliated researchers

Intended Audience:

Researchers, clinicians, and companies interested in the research focus and/or facilities at REVAL.

Social Activity:

A reception (drinks and small bites) will take place at the end of the tour.

Fee:

Free, but registration is mandatory