November 2026

Equipment Humanise Partners (on **Human Body, Human and Artificial Mind)**

Human Body

Brussels Human Performance lab (BLITS)

Website: https://blits.research.vub.be/nl

Contact person: Kevin.De.Pauw@vub.be

Equipment or facility	Model and specifications
Treadmill	Woodway PPS series
Cycle ergometer	Cyclus 2 cycle ergometer (version 4.2, Leipzig, Germany) + Trek Domane AL 2 Rim
Rowing ergometer	/
Climatic chamber	5-50°C; from dry desert air to 100% humidity. Equipped with a treadmill and cycle ergometer.
Altitude or hypoxic chamber	Simulates an altitude between sea-level (20.93% O2) and 6000m (10.20% O2). Equipped with a treadmill and ergometer.
EEG recording equipment	ActiCAP, LiveAMP, Brain Products, Munich, Germany (32 active gel-based Ag/AgCl electrodes)
ECG recording equipment	Cardioflex PC-ECG
Spirometry equipment	Metalyzer 2, Cortex
Lactate measurement equipment	BIOSEN 5030, Magdeburg, Germany
Glucose measurement equipment	Bayer Contour, Leverkusen, Germany
Heart-rate monitoring equipment	Polar H9/ Polar SR 400; Polar Electro Oy, Kempele, Finland

Brussels Human Robotics Research Center (BruBotics)

Website: https://brrc.research.vub.be/infrastructure

Contact person: bram.vanderborght@vub.be

Equipment or facility	Model and specifications
Movement analyses	14 VICON mocap cameras, 2 Digital video cameras, 3 build-in AMTI multiaxial force plates, GAITRite system, IMU systems, Kinect systems
Physiological analyses	16-channel Delsys EMG device, 16-channel Cometa EMG device, MetaMax 3B gas analysis system, Ultrasound devices, Dynamic US muscle-tendon imaging, Indwelling fine-wire system, Electrical stimulation of nerve and muscle
Rehabilitation technologies	EKSO NR gait rehabilitation exoskeleton, Exoband hipexoskeletons, Microsoft Hololens, Several Virtual Reality systems, Self-paced treadmill, Serious game hard- and software

Human Mind

Neuromodulation Center

Contact person: Sara.De.Witte@vub.be

Equipment or facility	Model and specifications
TMS device	Magstim Rapid2 Plus1-stimulator + Brainsway dTMS-system

Brussels Hospital MRI research lab

Contact person: Hubert.Raeymaekers@uzbrussel.be

Equipment or facility	Model and specifications
MRI	3.0-Tesla MRI GE Premier scanner equipped with a 48-channel head coil

Brussels Center for Language (BCLS)

Website: https://bcls.research.vub.be

Contact Person: Stefanie.Keulen@vub.be

Equipment or facility	Model and specifications
2 tDCS devices	OASIS Pro
Eye tracker	SR Research - EyeLink
Interpreting booths and laptop-equipped spaces for behavioural research	/

Artificial Mind

Artificial intelligence Lab Brussels

Website: https://ai.vub.ac.be/

Contact Person: ann.nowe@vub.be

Equipment or facility	Model and specifications
Softwares	Babel, Fluid Construction Grammar, Parselmouth, Orval, DynaMine, VarCoPP, DSPH, Toolbox Multi-Agent System, Shepherd

Computer Augmented Virtual Environment (FARI)

Website: https://www.fari.brussels/nl/onderzoek-en-innovatie/test-en-ervaringscentrum

Contact Person: ann.nowe@vub.be / geoffrey.aerts@vub.be

Equipment or facility	Model and specifications
CAVE	Immersive and interactive virtual environment. Its versatility spans scientific visualization, architectural walkthroughs, and medical simulations