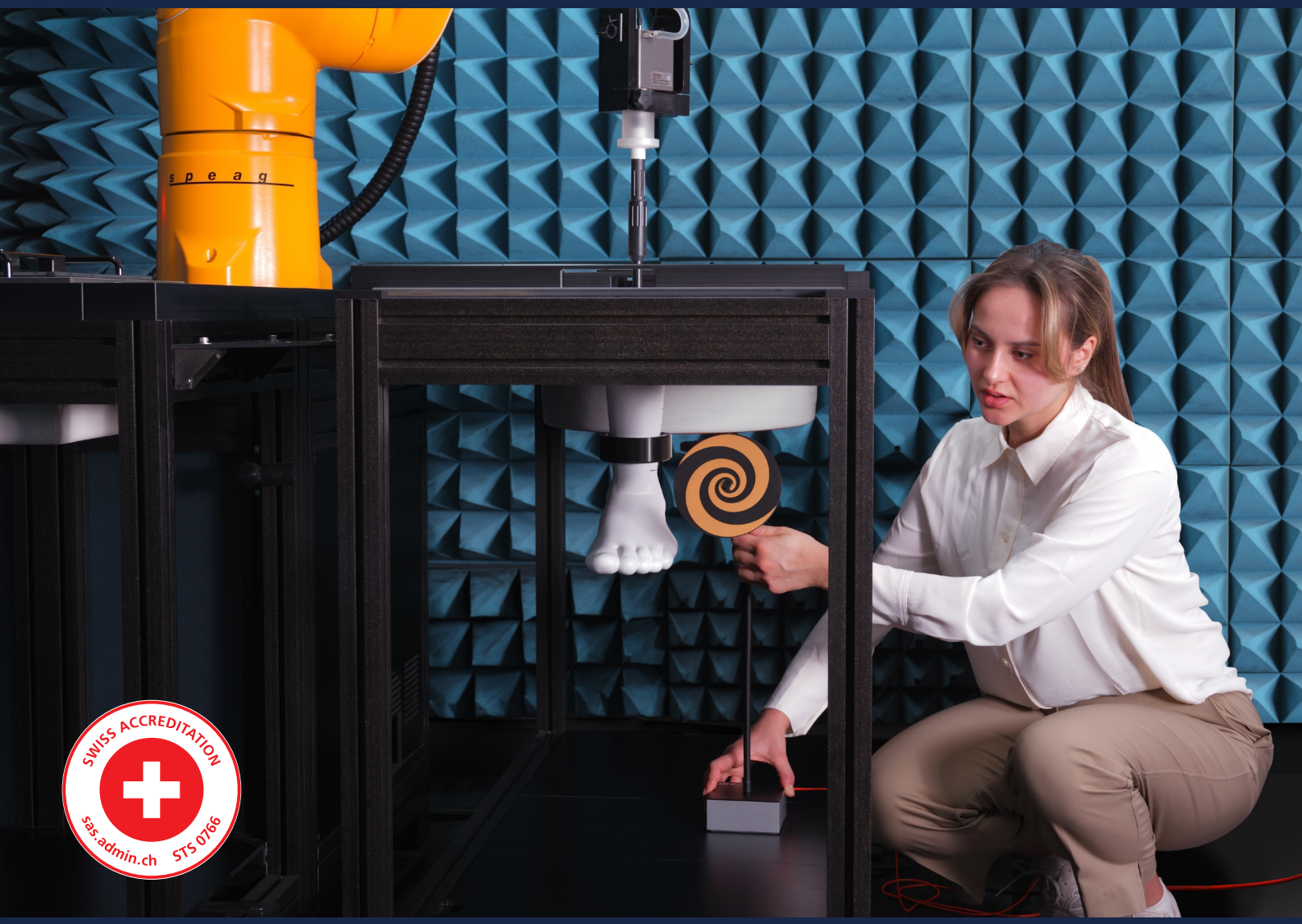
Custom R&D

Traceable Measurements to Support Your Innovation



What are our Services?

IT'IS Foundation supports academic, industry, and regulatory partners with engineering design, verification & validation, and compliance testing in electromagnetics, wireless, and medical applications.

Our ISO 17025 accredited testing laboratory measures the incident and induced fields of wireless devices from 3 kHz to 110 GHz; the radiofrequency heating of medical implants under MRI examination; and dielectric properties of bulk and thin-layer materials.

Contact us to learn more!

Exposure Evaluation

IT'IS is recognized as the leading independent source for dosimetric specific absorption rate (SAR) expertise. We design novel sensing methodologies; drive applied research for standards development; and perform numerical and experimental compliance assessments of wireless communication and power transfer technologies.

In- and On-Body Antennas

We design and validate electrically small, resonant and non-resonant antennas with optimized link budgets in complex environments, which can accommodate anatomical variations while respecting safety regulations. IT'IS also develops novel validation phantoms for safety and optimization.

Implant MRI Safety

Our test lab assesses MRI RF and gradient safety of active and passive implants, following ISO 10974 and ASTM F2182 compliant workflows, and using FDA-qualified tools and the Virtual Population.

IT'IS FOUNDATION

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Simulation Services to Support your Innovation

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What are our Services?

The IT'IS Foundation supports academic, industry, and regulatory partners in optimizing your electromagnetics, wireless, and medical devices and procedures by applying the latest breakthroughs in computational methods.

With our Z43 alliance partners SPEAG, ZMT Zurich MedTech AG, and TI Solutions AG, we support computational life science assessments of the safety and efficacy of cutting-edge wireless technologies, medical devices and therapies.

Contact us to learn more!

Neurostimulation

Our expert team performs efficacy, optimization, and safety assessment of neurostimulation of the central and peripheral nervous systems, for basic research, technology development, and compliance testing.

Anatomical Models

The Virtual Population (ViP) are the gold standard high-resolution whole-body computational anatomical models for biomedical modeling and safety assessment. The ViP can be extended and augmented with detailed regions and advanced functionalities to support customized applications.

Personalized Therapies

In silico clinical trials, digital twins, and precision medicine applications for radiology/imaging, radiofrequency and thermal therapies, and more are possible with our partner ZMT's multi-physics software platform Sim4Life.

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