

Position	MRI Safety of Implanted Medical Devices and MRI-Guided Interventions (PhD)
Workplace:	Zurich, Switzerland
Company:	IT'IS Foundation for Research on Information Technologies in Society, ETH (Swiss Federal Institute of Technology) Zurich
Description:	The IT'IS Foundation at ETH Zurich has pioneered research investigating electromagnetic near fields and their applications, including measurement and TCAD tools, antenna optimization for on-body and implanted devices, safety evaluation, risk analysis, etc. One of our rapidly growing areas is the safety of MRI diagnostics, in particular for patients with implants. The main objectives of the offered position are the characterization of the potential danger of implants during MRI examinations and the development of concepts to reduce potential RF coupling/EMC. We offer an excellent research environment in an interdisciplinary, dynamic team of electrical engineers, physicists, biologists and computer experts. We also collaborate with prominent research laboratories and industries worldwide.
Education:	We are looking for a creative, talented and ambitious individual with a university degree (diploma or master's) in electrical engineering or physics. Knowledge in one or more of the following fields is expected: electrodynamics, RF and antenna measurement techniques, numerical simulation of electromagnetic fields, biomedical engineering.
Beginning:	As soon as possible
Application Process:	<p>Applications should consist of:</p> <ul style="list-style-type: none"> • a cover letter including the position title and a statement addressing the selection criteria and outlining the motivation for applying for the position • a detailed CV • copies of degree certificates and / or diplomas, including grades • letters of recommendation <p>We look forward to receiving your complete resume materials as a single pdf file at: jobs@z43.swiss.</p> <p>For further information or to discuss the scope of this position, please contact Dr. Tolga Goren (Goren@itis.swiss) (phone +41 44 245 96 80).</p>

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