

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 MR diagnostics, in particular for patients with implants.

MR Safety of Implanted Medical Devices (PhD)

Job Profile:

The main objectives of the offered position are the characterization of the potential danger of implants during MR 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 person 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.

Are you interested? We look forward to receiving your application (complete resume materials including a cover letter, detailed CV, copies of degree certificates and / or diplomas, and two letters of recommendation). For further information or to discuss the scope of this position, please contact Dr. Myles Capstick (greatjobs@itis.ethz.ch or phone +41 44 245 9696).

Please send your application as a single pdf file to:

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