

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 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.

Are you interested? We look forward to receiving your application (complete resume materials including references, as a pdf file). For further information or to discuss the scope of this position please contact Dr. Myles Capstick ([greatjobs@itis.ethz.ch](mailto:greatjobs@itis.ethz.ch) or phone +41 44 245 9696).

Please send your application to:

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