BSc project: Development of a calibrated MRI phantom for MRI electrical properties mapping.

This project aims at: 1) developing a standardized procedure for the creation of MRI phantoms for electrical properties tomography; 2) creating and validating an MRI phantom following the above developed procedure.

In this project, you will be working in an engineering laboratory at the UMC Utrecht for the design and creation of such phantoms, you will perform MRI experiments for validation purposes at the MRI facilities of the UMC Utrecht, and you will develop code for data processing and analysis (matlab/phyton).

In the big picture, this project sets the starting stone for the worldwide standardization of electrical properties mapping with MRI.

Project type/duration: expected around 3 months (variable).

For more information, please contact Dr. Stefano Mandija (S.Mandija@umcutrecht.nl)