The Danish Research Centre for Magnetic Resonance (DRCMR) at Copenhagen University Hospital Hvidovre (Denmark) is offering two postdoc positions on advanced MRI and brain stimulation.

**Postdoc position on mapping and shaping motor cortical plasticity with ultra-high field magnetic resonance imaging and transcranial magnetic stimulation in focal hand dystonia**

We are seeking a highly motivated PostDoc candidate (2-year period) to work on a brain stimulation project in patients with focal dystonia affecting the hand. The project combines transcranial magnetic stimulation (TMS) and ultra-high field functional magnetic resonance imaging (fMRI). We will use a novel TMS intervention to shape sensorimotor representations of the hand in the human motor cortex. 7T fMRI and neuro-navigated TMS will be used to map plasticity changes at unprecedented functional resolution.

**Application deadline:** 15th February 2019.

**More information** about this position can be found here: 
[https://candidate.hr-manager.net/ApplicationInit.aspx?cid=342&ProjectId=216316&DepartmentId=18051&MediaId=4754](https://candidate.hr-manager.net/ApplicationInit.aspx?cid=342&ProjectId=216316&DepartmentId=18051&MediaId=4754)

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**Postdoc candidate to work on MR Electric Impedance Tomography and FEM models for Dosing of Transcranial Electric Stimulation**

We are seeking a highly motivated Postdoc candidate (2-year period) to work on combining MR Electric Impedance Tomography (MREIT) with realistic electric field calculations for use in individual dose control of Transcranial Direct Current Stimulation (TDCS). It is a central part of a larger project headed by Associate Professor Axel Thielscher (Danish Research Centre for Magnetic Resonance, DRCMR & Department of Health Technology, Technical University of Denmark, DTU) that aims to establish a rationale dose control for TDCS and explore the effects of higher current strengths for TDCS. The project is performed in collaboration with Professor Hartwig Siebner (DRCMR) and Professor Gottfried Schlaug (Beth Israel Deaconess Medical Center and Harvard Medical School, Boston).

**Application deadline:** Please apply online until latest April 15th. Incoming applications will be continuously evaluated.

**More information** about this position can be found here: 
[https://candidate.hr-manager.net/ApplicationInit.aspx?cid=342&ProjectId=216517&DepartmentId=18051&MediaId=4754](https://candidate.hr-manager.net/ApplicationInit.aspx?cid=342&ProjectId=216517&DepartmentId=18051&MediaId=4754)

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**About us:**

The **Danish Research Centre for Magnetic Resonance (DRCMR)** is one of the leading research centers for biomedical MRI in Europe (www.drcmr.dk). Our mission is to triangulate MR physics, basic physiology, and clinical research. Approximately 70 researchers from a diverse range of disciplines are currently pursuing basic and clinically applied MR research with a focus on structural, functional, and metabolic MRI of the human brain and its disorders.

The DRCMR is embedded in the Center for Functional and Diagnostic Imaging and Research, a large diagnostic imaging department including all biomedical imaging modalities at **Copenhagen University Hospital Hvidovre**. DRCMR has close interaction with clinicians and radiologists and a state-of-the-art MR-research infrastructure, which includes a pre-clinical 7T MR scanner, six whole-body MR scanners (one 7T, three 3T and two 1.5T scanners), a neuropsychology laboratory, an EEG laboratory, and two laboratories for non-invasive brain stimulation.