

*At Radboud University, we do research and teach programmes covering the full width of the academic spectrum. We do this on a green, modern campus with state-of-the-art facilities. The atmosphere on campus is open and personal, which stimulates colleagues to share their knowledge beyond the boundaries of their own discipline. It encourages all to look further, to see more. Thus, Radboud University contributes to the development of new perspectives. Within science and within society. This makes Radboud University successful and of international importance.*

## Two Postdoctoral Researchers in MRI Diffusion-Weighted Imaging (0.8 - 1.0 FTE)

**Donders Institute, Centre for Cognitive Neuroimaging**

**Maximum salary: € 4,852 gross/month**

**Vacancy number: 30.11.18**

**Application deadline: 20 December 2018**



### Responsibilities

Applications are invited for two postdoctoral researchers in the MR Techniques group at the Radboud University, Donders Institute (PI: David Norris). They will work together on a project funded by the Dutch Science Foundation (NWO) on high spatial resolution diffusion-weighted MRI for the detection of small brain infarcts, traumatic brain injury and cholesteatoma. The project is a collaboration between the Donders Institute, Siemens Healthineers, MR Coils BV, and the university medical centres of Antwerp, Nijmegen and Utrecht. The appointees will form a team that will develop basic pulse sequences and reconstruction algorithms, test these on healthy volunteers in the initial phase and then transfer the final techniques to the clinic, where, together with radiologists and neurologists, the protocols will be assessed and further refined.

### Work environment

The Donders Institute for Brain, Cognition and Behaviour is a world-class research centre devoted to understanding the mechanistic underpinnings of human cognition and behaviour in health and disease. The Institute is home to more than 600 researchers from 35 countries who share the common goal of contributing to the advancement of the brain, cognitive and behavioural sciences through investigator-driven research, and improving health, education and technology by applying advances in this field. The Institute consists of four centres: the Centre for Cognition, the Centre for Cognitive Neuroimaging, the Centre for Medical Neuroscience, and the Centre for Neuroscience.

You will be based at the Donders Centre for Cognitive Neuroimaging. All research staff have access to state-of-the-art research and training facilities and a generous conference and travel budget. English is the lingua franca at the Institute.

The MR Techniques group combines a strong track record in methodological developments in human neuroimaging with a friendly, supportive and diverse environment.

### What we expect from you

You should be in possession of, or have submitted a PhD thesis in MRI at the time of appointment.

Postdoc 1 (4-year contract at 1.0 FTE) will have a primary emphasis on pulse sequence development. Knowledge of diffusion-weighted imaging, turbo-spin-echo sequences, C++, or the Siemens IDEA programming environment would be highly advantageous.

Postdoc 2 (3-year contract at 1.0 FTE) will be mainly responsible for image reconstruction. Previous experience with reconstructing partial-parallel and/or simultaneous multi-slice data sets using Siemens (ICE), Philips or Gadgetron platforms would be a considerable advantage.

For both positions, a good knowledge of MR physics and strong programming skills are essential. Both positions require good organisational and communication skills, and the ability to work in a tight-knit team.

### What we have to offer

- employment: 0.8 - 1.0 FTE;
- a maximum gross monthly salary of € 4,852 based on a 38-hour working week (salary scale 11);
- in addition to the salary: an 8% holiday allowance and an 8.3% end-of-year bonus;
- term of contract: Postdoc 1: 4-year contract at 1.0 FTE (or 5-year contract at 0.8 FTE), Postdoc 2: 3-year contract at 1.0 FTE (or 4-year contract at 0.8 FTE);
- intended start date: 1 April 2019;
- job profile: Researcher, Level 3;
- you will be able to make use of our [Dual Career Service](#) where our Dual Career Officer will assist with family related support, such as child care, and help your partner prepare for the local labour market and with finding an occupation.

Are you interested in our excellent [employment conditions](#)?

## Other Information

Radboud University is an equal opportunity employer, committed to building a culturally diverse intellectual community, and as such encourages applications from women and minorities.

## Would you like to know more?

Further information on: [Theme 4: Brain Networks and Neuronal Communication, MR Techniques in Brain Function](#)

For more information about this vacancy, please contact:

David Norris, Professor

Telephone: +31 24 36 10651

E-mail: [david.norris@donders.ru.nl](mailto:david.norris@donders.ru.nl)

## Are you interested?

You should upload your application (attn. of David Norris) exclusively using the button 'Apply' below. Your application should include (and be limited to) the following attachment(s):

- Motivation Letter
- CV, including 2 references



*No commercial propositions please.*