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Subject Post-Doc Position: Quantitative Cardiac MRI



Department of Imaging Physics
Faculty for Applied Sciences

Post-Doc Position: Quantitative Cardiac MRI

TL;DR: Post-Doc Position in quantitative MRI at TU Delft, Netherlands. 2 years. 3389 - 4274 EUR monthly

Job description An exciting post-doctoral opening became available in a translational convergence project between TU Delft and Erasmus MC. The project is led by the Magnetic Resonance Systems lab (Mars lab) at TU Delft and the Department of Radiology at Erasmus MC. We are looking for a talented researcher to join our project on quantitative susceptibility mapping as a post-doctoral fellow for two years. The position is primarily based at TU Delft. The successful candidate will join a young and dynamic group in a prolific, creative and fun environment. The post-doc will work on developing novel imaging biomarkers of the heart with quantitative susceptibility MRI. This project will comprise a strong modeling and sequence development part and will be carried out in close collaboration with translational science and clinical collaborators in Erasmus MC. The successful candidate will also have the opportunity to take mentoring responsibility for students at the bachelor's and master's level.

The primary infrastructure for MRI research at the Mars lab in TU Delft is a new Philips Ingenia 3T scanner, located in a local clinical research center. Furthermore, this project will utilize resources at Erasmus MC, providing access to multiple state of the art 1.5T and 3T GE scanners.

Requirements At Mars lab we value drive, curiosity and passion for research the most. Besides this, the following criteria will be used to evaluate potential candidates

- Ph.D. degree in Physics, Biomedical Engineering, Electrical Engineering, or a related field and strong publication record in the area of MRI research
- Experience with MR pulse sequence development (preferably Philips), or modern MR reconstruction techniques is highly advantageous
- Strong programming skills, preferably in C++, are essential

Research Environment Delft University of Technology (TU Delft) is the largest and oldest Dutch public technological university. It ranks as one of the best universities for engineering and technology worldwide, typically seen within the top 20. It is repeatedly considered the best university of technology in the Netherlands.

Delft is a vibrant university town located in the province of South Holland. It is a popular tourist destination for its picturesque canals and old town. Delft is located in commuting distance to Rotterdam and The Hague, two major cultural hubs in Europe. The Dutch research landscape is very welcoming to international researchers, including measures of significant tax cuts for newly relocating research personnel.

The Faculty of Applied Sciences is the largest faculty of TU Delft, with around 550 scientists, a support staff of 250 and 1,800 students. The faculty conducts fundamental, application-oriented research and offers scientific education at the bachelor, master and doctoral levels. The position is in the Department of Imaging Physics (www.imphys.tudelft.nl) of the Faculty of Applied Sciences. Our department performs cutting-edge research spanning the range from understanding the basic principles underlying imaging technology to automated image analysis.

Application You can find out more about the convergence project at convergence.healthandtechnology.nl/. To find out more about Mars Lab and the perks of joining a new lab as a post-doc please visit our web page at www.mars-lab.eu. For information about this vacancy, you can contact Sebastian Weingärtner, Assistant Professor of Imaging Physics, TU Delft, email: S.Weingartner@tudelft.nl.

To apply please visit <https://convergence.healthandtechnology.nl/community/position/post-44>