Postdoctoral position (2 years)  
“Development of mouse cardiac 19F MRI methods for quantification of myocardial inflammation”

Job description  
The Preclinical and Translational MRI group of the Department of Biomedical Engineering and Physics of the Academic Medical Center (AMC) in Amsterdam is hiring a PostDoc for a project on 19-Fluorine MRI of cardiac inflammation.

Inflammation is a key player in various heart diseases. Therefore, a noninvasive imaging method to provide information on the location, amount and dynamics of myocardial inflammation can significantly improve the patient’s outcome. Fluorine (19F) magnetic resonance imaging (MRI) of fluorine-containing nanoparticles that home to sites of inflammation holds great promise for specific and quantitative assessment of cardiac inflammation. The postdoctoral project will focus on the development of accelerated MRI methodology for sensitive and quantitative detection of 19F in the mouse myocardium. The project will involve reconstruction methods for sparse imaging and advanced motion compensation technology.

Requirements  
We are looking for a candidate with a PhD degree in Biomedical Engineering, Biomedical Sciences, or similar. Proven experience with preclinical MRI research and advanced MRI methodology is required. An article 9 certificate of the Experiments on Animals Act (Dutch: Wet op de Dierproeven) or international equivalent is a prerequisite. We are looking for a positively minded scientist with verbal and written skills in English, motivated to learn new approaches and ready to work hard to build a scientific career in translational medicine.

Group  
The Preclinical and Translational MRI group, headed by prof. Gustav Strijkers, has the ambition to develop novel quantitative and comprehensive MRI technology. Application areas include cardiovascular diseases, oncology, and neuromuscular disorders. The research is translational (from mouse to human) and has strong links to the Radiology department. Core facility of the group is a new laboratory equipped with a 7 Tesla preclinical MRI scanner for animal research.

Conditions of employment  
Working at AMC means working in an inspiring and professional environment in which developing one’s talents and skills is encouraged. We offer:

- A 2-year position as a Postdoc;
- A salary in line with the Collective Labor Agreement for University Medical Centers in the Netherlands (CAO UMC). The gross monthly salary ranges from EUR 3,153.00 to EUR 4,152.00);
- A range of added fringe benefits, such as an annual bonus of 8.3 %, holiday allowance, collective discounted rates for a number of insurances, an attractive bicycle scheme and/or public transport allowance, and free parking.

Contact  
If you wish to apply for this position, see https://werkenbijamc.nl/vacatures/postdoc-development-of-19-fluorine-mouse-cardiac-mri-methods-for-quantification-of-myocardial-inflammation/. For more information, please contact Prof. Gustav Strijkers by email: g.j.strijkers@amc.uva.nl

We are looking forward to your application!