

# POST DOC position

Clinical Physics Laboratory,  
Radboud University Nijmegen Medical Center,  
Nijmegen, The Netherlands

## Department

At the Clinical Physics Laboratory, the research is focussed on functional imaging using ultrasound. Using elastographic techniques, the function and composition of the heart, arteries and plaques, and muscles is investigated. The laboratory is situated in the Department of Paediatrics and has strong links to the sub departments of Paediatric Cardiology, Neonatology and Paediatric Neurology.

Recently, a grant from the Dutch Organisation for Scientific Research (NWO) and the Dutch Technology Foundation (STW) was obtained for the project "Vulnerable Plaque Detection in Carotid Arteries using Noninvasive Ultrasound Elastography". For this research project we are looking for a post doc for an appointment of 3 years. A PhD student is already working on this project since January 2007

## Function

The goal of the project is the development of techniques to assess the motion of the carotid artery with respect to the surrounding tissue. Displacement estimation strategies as well as strain estimation techniques have to be developed. The techniques will be evaluated in a small scale patient study. Finally, the techniques will be tested in a larger population prospective study. The following qualifications are required:

- A PhD in biomedical engineering, preferably in the field of ultrasound elasticity imaging.
- Proven track record in research illustrated by publications and conference presentations.
- Capable of working in a multi disciplinary team.

## Information

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