

In the framework of a European H2020 MSCA ETN project entitled B-Q MINDED, Quantib has a **full-time vacancy** for a

PhD student - Early Stage Researcher (f/m) in the field of quantitative magnetic resonance imaging

About B-Q MINDED:

B-Q MINDED (www.bqminded.eu) is an EU-funded project aiming to develop breakthroughs in quantitative MR imaging such as MR relaxometry and diffusion MRI. B-Q MINDED will offer the selected early stage researchers (ESR) the opportunity to conduct top-notch research in leading academic institutions, hospitals and industry R&D divisions. During the research there will be strong emphasis on career development and on achieving impact. B-Q MINDED has the ambition to turn the developed algorithms into diagnostic solutions for improved health and care.

About Quantib

Quantib BV (www.quantib.com) was founded in 2012. It provides cutting-edge medical image quantification software and quantitative imaging biomarker services for radiologists, researchers, neurologists, and life science and health care technology companies. Our MR and CT image analysis software enables physicians and researchers to extract imaging biomarkers in a wide range of body sites to support more accurate, faster, and cost-effective diagnoses and prognoses. Quantib has two products on the market that are officially certified for clinical usage. One of these products, Quantib™ Brain, is worldwide marketed and distributed by General Electric Healthcare.

We currently work with 18 team members in the center of Rotterdam, The Netherlands. All of our R&D engineers have a PhD/Msc degree in image analysis. Our Chief Scientific Officer, and co-founder of the company, is prof. Wiro Niessen, head of the Biomedical Imaging Group Rotterdam. He is a full professor both in the Erasmus Medical Center in Rotterdam and the Delft University of Technology, and currently President of the MICCAI.

June 2017 the company received the Anthony Fokker prize for best data science start-up in The Netherlands.

Your research - tasks

As a researcher you will be part of the Quantib team as well as being supported by the Erasmus Medical Center for scientific guidance. Your research focus in this project will be on developing and validating automated MRI biomarker extraction methods specifically for Q-MRI datasets (maps).

During your training you will receive full support to learn advanced software development, machine learning and deep learning techniques, and their application in the biomedical domain.

Your profile

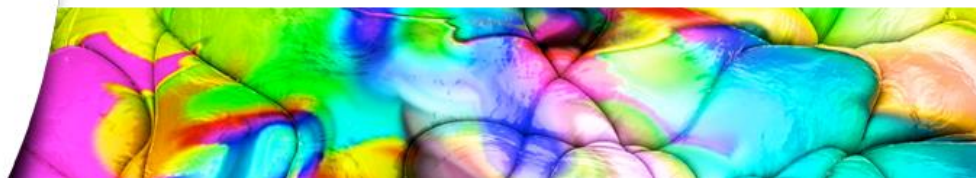
- ✓ You have a master's degree in physics, computer science, mathematics, engineering, or related field (if you have not obtained your diploma yet, but expect to do so in the near future, please apply already).
- ✓ In view of the international context, mastering of the English language is mandatory.



Horizon 2020
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B-Q MINDED
Breakthroughs in Q-MRI



- ✓ Background in scientific computing and/or magnetic resonance imaging MRI is appreciated.

Eligibility criteria of the Marie-Sklodowska Curie programme

- ✓ **Early Stage Researcher:** At the time of recruitment, you are in the first four years (full-time equivalent research experience) of your research careers and have not yet been awarded a doctoral degree.
- ✓ **Mobility rule:** At the time of recruitment, you have not resided or carried out your main activity (work, studies, etc.) in the country of the host beneficiary for more than 12 months in the 3 years immediately prior to the recruitment date. Compulsory national service or short stays such as holidays are not taken into account.

Our offer:

- ✓ The fellowship is awarded for a period of 3 years.
- ✓ A gross monthly living allowance in line with Dutch standards for a starter with a master's degree taking into account years of research experience, plus a mobility allowance of 600€ and a family allowance (if applicable) of 500€ .
- ✓ You will benefit of a regular employment contract.
- ✓ You will be enrolled in our PhD training programme.
- ✓ Exciting multidisciplinary research in a collaborative network of top academic and industrial partners.
- ✓ State-of-the-art computing and imaging infrastructure to support your research.
- ✓ Special focus on career development by offering training in transferable skills such as project management, communication skills, grant writing, exploitation of results, etc.

Additional information

For additional information about the research project, contact:

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