

We are looking for a

Researcher, Department Applied Research

Who are we?

At Medis we believe in empowering medical professionals with our innovative analytical solutions. For more than 30 years cardiologists, radiologists, researchers and industry partners worldwide rely on Medis post-processing software, resulting in customers in more than 40 countries. Our team of professionals take great pride in providing innovative cardiovascular imaging solutions that supports our customers' diagnoses and treatment options.

We provide medical professionals with worldwide support, so that together we can improve patient's quality of care.

Our headquarters is in Leiden, but over the years we have established subsidiaries and branch offices in the USA, Japan, United Kingdom, Germany, France as well as distributors and local agents in multiple countries.

What will your role be?

You will contribute to Medis' Product Leadership by conducting innovative research in the field of multimodality medical imaging resulting in AI/DL-powered algorithms for integration into Medis products. You will develop Proof-of-Concepts to fulfil Medis' longer term technology roadmap.

For this you will need to keep up with international literature on the subjects involved.

You will be working towards developing innovative, robust, and vendor independent solutions that will work in daily clinical research and clinical care practices Your role is to develop algorithms in preferably Python or C++ by using as much as possible standard frameworks like ITK/SimpleITK, VTK, Numpy etc. The end result should be portable to a solution that can be integrated into applications built in C++ in a platform independent manner. You will be required to write (system) documentation in English.

In this role you will collaborate with clinical partners for external testing, validation, and feedback on our innovations. You will work with the team to incorporate feedback into newer versions of the products.

In addition, you will be expected to participate in scientific publications of external authors on the Medis innovations. Through these external contacts you will be able to identify potential topics and improvements for Medis patent applications.

As and when required, you will participate in Deep Learning (DL) research and applications following the proper training. This is most relevant in the following cases:

- To develop and enhance automated training and evaluation deep learning (DL) pipelines
- To set up, train and validate deep learning (DL) models working on medical images.

The profile we are looking for:

- PhD or Master of Science degree in (biomedical) engineering, computer science or electrical engineering (major in imaging)
- Extensive experience with image processing, such as image segmentation, registration, etc.
- Experience with C++ and/or Python programming language and relevant toolkits (such as ITK, VTK, NumPy, SciPy, Tensorflow, PyTorch) is an asset
- Extensive experience with Deep learning is an asset
- Experience with medical applications is an asset
- Excellent communication skills, both written and verbal, in English
- A true Innovator and interested in biomedical technology
- Experience with Agile development is an asset

Personal Skills and competences:

- Committed and pro-active
- Demonstrated innovative mindset
- Accurate, reliable and attentive to details
- Strong analytical skills
- Excellent written and spoken English, Dutch preferable
- Enthusiastic team player

What Medis offers you:

- An attractive compensation plan
- International, young and diverse colleagues
- Personal growth and development opportunities
- Contributing to innovative products that make a difference

