Machine Learning Software Engineer

Company overview

Intelligent Ultrasound is making ultrasound easier for medical staff to use:

- for the clinic, we are developing real-time artificial intelligence-based image analysis software to improve scan quality and workflow;
- for the training room, we are manufacturing advanced virtual-reality ultrasound training simulators to improve ultrasound teaching.

We have offices in Cardiff and Oxford, but this role will be within our AI division in Cardiff.

More detail is available on our website: https://www.intelligentultrasound.com

Job specification

You will join our R&D team working on automated analysis of ultrasound images. Our technology uses both deep learning and traditional image analysis techniques and is based in part on research undertaken by the laboratory of Professor Alison Noble at Oxford University. You will carry out machine learning on large datasets of medical images to produce deep-learning models that will be incorporated into products under development and clinical evaluation.

The software we develop is regulated as a medical device and so requires approval by regulatory agencies such as the FDA and MHRA. This means we work under a quality system (ISO13485).

Our vision is to improve the way ultrasound is used in medicine so you should expect to see the real-world impact of your work.

Skills and experience

You will be a highly numerate software engineer with experience of machine learning, preferably of deep learning in medical imaging. Most important is your ability to understand and handle the large amounts of data we use to develop our machine learning models.

Requirements:

- strong python knowledge is essential as you will be writing tools to manipulate data
- understanding of deep-learning
- understanding of image analysis techniques for noisy data
- experience of using TensorFlow
- understanding of software engineering methodologies

Personality

As part of a small project team, the workload will be rich and varied, so you need to be proactive, adaptable and happy to work without constant supervision. It's important you fit in with the team and have a great attention to detail to ensure prototype software is of a high standard.