



## Medical Algorithms Engineer (Remote Working)

Kite Medical is a medical device company developing a novel, electromechanical medical device to detect kidney reflux in children. Our vision is to be '*the method of choice for screening and monitoring kidney reflux in children, enhancing patient experience and clinical outcomes*'.

### The Role

The engineer will be an active member of the technical team and will report directly to the CTO. We are looking for a candidate that is proactive, a team player, and has excellent communication skills. The role will require exploration of novel signal processing methods for images and time-series data. The engineer will develop algorithms that are innovative and robust. These algorithms will lead to high-quality code that drives continuous product improvement.

The candidate will:

- Define, design and test robust data analysis processes
- Use *finite elements* and the techniques of *inverse problems* to model low-frequency electrical current in the body and other measures, reconstruct conductivity distributions, and develop analysis of the resulting image series to present clinically relevant measures
- Liaise with Engineering and Management teams
- Analyse data from clinical studies and healthy volunteers
- Support the full development life cycle – requirements analysis, architecture, design, implementation, verification, validation and documentation
- Contribute to the eventual implementation of your algorithms in our device interface
- Participate in code and design review procedures
- Contribute and communicate effectively within a remote cross-functional team

### Job Requirements

- Master's or PhD degree in biomedical, computer, electrical, or electronics engineering or related discipline
- Experience in MATLAB (essential), C/C++, Python, Git, issue tracking, continuous integration
- Experience within an ISO regulated industry would be beneficial
- Experience with the MATLAB software package EIDORS and electrical impedance tomography (EIT) beneficial

**To apply, please submit your CV and a cover letter detailing why you are applying for the role to [info@kitemedical.ie](mailto:info@kitemedical.ie).**