



Image Reconstruction Scientist

The Opportunity:

IBEX Innovations Limited is seeking a talented Image Reconstruction Scientist, to develop cutting edge software products for the medical X-ray imaging market. You will undertake a key role within the Image Reconstruction Team, helping to develop advanced image reconstruction algorithms for application to medical imaging. You will need to have direct experience working with tomographic image reconstruction algorithms, with the ability to write good quality code. The role will be primarily focused on delivering advanced image reconstruction algorithms for tomosynthesis and cone beam computed tomography applications.

The role is ideally suited to a PhD level Mathematician, Physicist or Medical Physicist with experience in image reconstruction algorithms and methods. The role provides an opportunity to someone seeking to enter the world of medical X-ray imaging and to develop their skills working within an exciting and challenging work environment.

About IBEX®:

IBEX is a technology business in the advanced stages of commercialisation of patented X-ray detector technology for application to the medical X-ray imaging markets. IBEX is focussed on one goal: to apply advanced physics modelling, statistics and AI methods to extract the maximum amount of useful diagnostic information from every single X-ray. Our vision is to improve patient lives through earlier and more accurate diagnosis and to improve efficiency and reduce costs for health care providers everywhere.

IBEX is an equal opportunities employer. We believe that inclusion and diversity are key to the company's success and that people from diverse backgrounds bring unique experiences and fresh ideas to the company. We therefore positively encourage applications from people of all backgrounds regardless of sex, race, disability, age, gender reassignment, sexual orientation, marriage or civil partnership, pregnancy or maternity, religion or belief.

Based in modern offices on the NETPark Science Park in beautiful County Durham, IBEX currently employs 17 highly skilled staff including scientists, mathematicians, software engineers, and business professionals.

The primary responsibilities of the role will be to:

- Develop advanced image reconstruction algorithms for application to tomosynthesis and cone-beam computed tomography.
- Develop image artefact correction algorithms.
- Undertake X-ray laboratory experiments to facilitate algorithm development and testing.
- Write high quality code that can be easily translated by software engineers.

Candidates should possess the following skills and experience:

- PhD in mathematical, scientific, or engineering discipline
- Direct experience in developing and implementing tomographic reconstruction algorithms to real world data.
- Good coding skills, excellent working knowledge of Python or MATLAB
- Good communication, technical writing and presentation skills
- Ability to work independently and as part of a team.

Additional skills and qualities which would be beneficial:

- Strong track record in developing reconstruction algorithms (2+years' experience and peer reviewed publications)
- Knowledge of, and experience in, image artefact and correction algorithms
- Domain knowledge in medical imaging, medical physics or x-ray physics



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Location

NETPark Science Park, Sedgefield, County Durham

Salary and Benefits:

Salary: Competitive salary based on experience.
Benefits: IBEX operates a flexible benefits scheme including pension and life insurance.
Share Options: Share options are available following successful completion of a three-month probationary period.
Holidays: 25 days plus bank holidays
Working: A mix of home/office working is available.
Parking: Free

Closing Date:

Open

Please note should sufficient applications be received IBEX reserve the right to close this vacancy at any time, we always encourage all interested applicants to apply at their earliest convenience to avoid disappointment.

Data Protection and Equality:

As part of the application process, we will ask you to optionally provide some personal information which will assist us to meet our diversity and inclusion goals and ensure that underrepresented groups are fairly assessed. Only those involved in the recruitment process at IBEX will have access to this information and all personal information will be deleted from our systems should your application be unsuccessful.

Please do not hesitate to contact us if you would like to discuss any adjustments to our process which might help you demonstrate your strengths and capabilities.

Should you be successful at interview, we will ask you to complete a right to work checklist prior to commencing employment with IBEX, as proof you are eligible to work in the UK.

If you are interested in this position, please forward your CV and cover letter to:

k.scott@ibexinnovations.co.uk