



Research Scientist (Mathematician)

The Opportunity:

IBEX Innovations Limited is seeking a talented Research Scientist with a focus on Mathematics, to develop cutting edge software products for the medical X-ray imaging market. The role is ideally suited to a PhD or Masters level Mathematician, Theoretical Physicist or Statistician with excellent working knowledge and competency in scientific programming. 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 22 highly skilled staff including scientists, mathematicians, software engineers, and business professionals.

The primary responsibilities of the role will be to:

Reporting to the Core Algorithm Team Leader, the Research Scientist will play an important role in the development of the algorithms within the IBEX Trueview® product and in guiding future technology and product development to meet customer needs.

Candidates should possess the following skills and experience:

- Creative thinking with the ability to develop novel and innovative solutions to complex problems.
- The ability to take a supporting or leading role in delivering the R&D component of internal projects.
- The ability to design computationally efficient algorithms which can be optimised to run under demanding time constraints.
- Maintaining an up-to-date knowledge of developments in our field, including attendance at conferences and ongoing professional development.

Additional skills and qualities which would be beneficial:

- Practical experience applying inverse problem-solving methodologies synthesising computationally expensive simulators and real-world data.
- Domain knowledge of X-ray physics, medical image processing and clinical image quality assessment.
- Domain knowledge of spatial modelling: for example, mesh registration, statistical shape modelling, active shape models or deformable templates.

Education

- PhD or degree in mathematics, statistics, theoretical physics or another STEM discipline.
- Excellent working knowledge and competency in scientific programming (for example MATLAB, Python or R)

Location

NETPark Science Park, Sedgefield, County Durham



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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