



Senior AI Research Scientist

The Opportunity:

IBEX Innovations Limited is seeking an experienced Senior AI Scientist to work in its data & AI team, developing groundbreaking and disruptive new products for medical X-ray imaging. You will be both an innovator and a hands-on contributor to experimental and development activities as well as taking responsibility for internal and customer facing projects. The successful candidate will also contribute to the wider innovation and applications activities within IBEX and will be expected to interact with clinical and development partners as well as potential customers.

The ideal candidate will have a first-class degree and preferably a PhD in a physics, medical imaging or mathematics/engineering discipline with demonstrable skills and experience in implementing advanced AI methods. Commercial experience including applications development, project management and customer-facing roles is essential and direct experience with image-based AI, particularly in medical imaging applications would be a significant advantage.

The position offers a unique opportunity for the right individual to have a direct influence in the successful commercialisation of an exciting new range of medical imaging AI products and the future success of IBEX®.

Listen to AI Technical Lead, Thomas Jubb, talk a little more about this role here:

<https://www.youtube.com/watch?v=bdcXxBWWEIw>

About IBEX®:

IBEX® is a technology business in the advanced stages of commercialisation of a patented X-ray detector technology for 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. A vision to improve patient lives through earlier and more accurate diagnosis and to improve efficiency and reduce costs for health care providers everywhere.

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:

- Developing algorithms to solve problems in medical imaging; with AI or with classical methods.
- Delivery of results, often to tight deadlines, across multiple projects.
- Delegating project work to the rest of the team; and picking up small tasks where necessary to support the team.
- Supporting other teams as required, for example with deep learning solutions.
- Assist with marketing and outreach on all AI activities; and develop new product ideas.
- Implementing new technologies and good practice into the team.

Candidates must possess the following essential skills and experience:

- Demonstrable experience with deep learning projects in industry.
 - Preferably CNNs
- PhD in Physics, Maths, Computer Science or related discipline.
 - Preferably with a focus on x-rays or simulation or some computationally intensive field
- Advanced coding skills in Python.
- Use of pytorch or Tensorflow for AI training and testing.
- Up to date understanding of AI methods and algorithms.
- Use of AI for computer vision tasks.



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- Some understanding of medical imaging (e.g. x-ray physics).
- A “can-do” attitude and ability to get things done with minimal day-day management.

Additional skills and qualities which would be beneficial:

- Knowledge of C++, Matlab or CUDA.
- Knowledge of statistics
- Knowledge of software development.
- Use of “software stack” including IDE’s, containerization, github.
- Domain knowledge in Medical Imaging or Medical Physics
- Domain knowledge in x-ray physics
- Publications in medical physics, AI or x-ray physics.

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.

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 a company driven by our values of Respect, Fairness, Honesty and Integrity, we know inclusion and diversity are essential for us to be able to succeed. We believe that people from different backgrounds can bring unique experiences and fresh ideas, ensuring they feel good and to keep growing their careers.

As you apply, we will ask you to share some personal information, which will be used in the recruitment process. We want to have an opportunity to consider a diverse pool of qualified candidates and this information will assist us in meeting that objective and in understanding how well we are doing against our inclusion and diversity ambitions. Rest assured, only those involved in the recruitment process will have access to this information and we will treat your information confidentially. This information will be shredded should you be unsuccessful following the recruitment process.

Please don't hesitate to contact us if you'd 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:

I.march@ibexinnovations.co.uk