



Innvotek Limited

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www.innvotek.com

Innvotek is a leader in the business of Innovation. We collaborate with organisations to drive business growth, while creating value throughout innovation. Driven by a desire to solve complex challenges, we help develop products that accelerate advances in technology and science. We invest both our technical expertise and funding 'know-how' to fuel the commercialisation of inventions and patent portfolios.

Our mission is to energize and streamline a knowledge based economy that will drive innovation.

Position: Signal and Image Processing Engineer @ Innvotek Ltd

Location: Solihull, UK

We are looking for an enthusiastic, focused and motivated individual from an Electronic Engineering, Computer Science or equivalent background, with past experience in signal and image processing, to join Innvotek's multidisciplinary team in the role of Signal and Image Processing Engineer.

You will be working with Innvotek's management and technical team and with project partners, engaging in the design and development of research, technology and innovation projects with the aim of developing advanced non-destructive testing and repair robotic systems.

Main duties and responsibilities:

- Develop intelligent and automated signal/image analysis systems to detect defects and guide robotic systems given sensory signals from X-Ray, Ultrasound, or Electromagnetic Acoustic Transducer sources.
- Integrate and make use of standard image and/or signal processing software packages (openCV, sigpack, and Matlab's Signal and Image Processing Toolbox) to expedite the development process.
- Validate the analysis and control system both offline, using retrospective data, and online, after system integration.
- Integrate the intelligent analysis programmes into the robotic control subsystem, and optimise the subsystem to fulfil the system's performance requirements and design constraints.
- Document product requirement specifications and engineering constraints, associated risks, test harnesses, and quality control systems for the intelligent analysis systems.
- Join client brain-storming, integration and system design sessions for system development and validation, and carry out due diligence and techno-economic feasibility of resulting ideas
- Software implementation to the required research/trial standards.
- Communicate effectively with suitable technical staff, academic partners and industrial clients to gather system requirements and performance targets.
- Contribute towards the preparation, brainstorming and design of new engineering solutions to the required standard and deadlines.
- Complete in a timely and collaborative manner assigned tasks required to fulfil the objectives of the project as stated in the project description.
- Attend regular project meetings and prepare and present full and regular accounts of progress to the client and line managers.
- Actively contribute to the overall activities of the project team
- Work with the Innovation Director, Chief Executive and team colleagues as required, and contribute to a wide range of areas, from different client accounts to internal Innvotek projects.

Person Specification:

- Essential: 2.1 honours degree (or equivalent) in Computer Science, Engineering, Physics, Mathematics or a related subject.
- Desirable: Postgraduate degree (PhD, or equivalent), or equivalent industrial experience, in scientific computing including signal or image processing, and numerical optimisation.
- Specialised in at least two of the following areas:
 - Image processing
 - Signal processing
 - Control systems
 - Integrated systems
 - Robotics/automation
- High level of proficiency in computer programming using C++ or python.
- Strong software engineering skills
- Ability to work effectively within a collaborative software development environment and with a multidisciplinary team of engineers
- Excellent written and spoken communication skills in English.
- Strong problem-solving abilities
- Proficiency in mathematics.
- Knowledge of software development lifecycle and version control using Git or equivalent
- Practical experience of algorithm and software development for scientific computing.
- Practical experience of signal/image processing or machine learning
- Demonstrable experience of C++/python software development, preferably within a team.

What we look for:

We are looking for people who are smart, curious and pro-active. We value each individual and want you to be the best version of your professional self: continuously improving on your role and always thinking *synergy* (how the pieces of the puzzle fit together and what you can do about it).

What we offer:

We are a highly dynamic and international team and we offer a competitive salary based on experience, a level of flexibility which allows you to manage your own time and work spot, and both an open environment and informal culture.

To apply please send your CV highlighting “Signal and Image Processing Engineer” in the subject line to recruitment@innvotek.com

Please include your notice period or availability to start, current location and anything else you would like us to know about you.