

Nanomaterial scientist

Quantum Solutions, a worldwide leader in quantum dot technology for wide-range image sensors, is looking to employ a highly motivated and skilled Nanomaterial Scientist for the role of Product Developer. The successful candidate will work on developing and optimizing the synthesis process of quantum dots for image sensors.

This is a full-time position located at our new facilities in Oxford Technological Park. Oxford is one of the most culturally diverse cities in the UK, offering a vibrant and intellectually stimulating environment. Today, the city is a bustling cosmopolitan town, renowned for its famous Oxford University and growing high-tech community.

The main responsibilities include:

New product development

Engineer, synthesize, and characterize quantum dot materials/semiconductor nanocrystals for image sensors (short-wave infrared (SWIR) and mid-wave infrared (MWIR) sensors).

QD synthesis development

Develop and optimize the synthesis processes of QDs and translate the process to the manufacturing team.

Customer relationship

Discuss technical details with internal and external customers, develop products according to their requirements, synthesize and deliver products to customers, and provide technical support.

Technical information

Prepare information for critical technical documents such as invention disclosures and progress reports, and assist in the preparation of marketing and sales materials.

Required experience/skills:

- Proven expertise and extensive experience in quantum dots colloidal/semiconductor nanocrystal synthesis for use in optoelectronic devices, particularly photodiodes.
- Knowledge of photodiode device fabrication and characterization is advantageous.
- Industrial experience is advantageous
- Eager to join a deep tech start-up.
- PhD in chemistry, physics, materials science, or another related field.



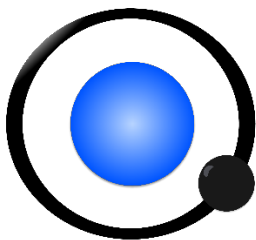
- Strong knowledge of materials characterization techniques, including UV-vis-NIR spectroscopy, PL measurement, TGA, FTIR, TEM, and SEM.
- Ability to work independently and collaboratively in a fast-paced start-up environment.
- Strong problem-solving skills and attention to detail.
- Advanced data analysis and presentation skills.
- Communicative and work well with multidisciplinary groups.

The benefits:

The role presents dynamic opportunities for professional growth and learning, in addition to the following benefits:

- Competitive salary
- Pension scheme
- Health insurance
- Annual performance bonus
- Equity stock options
- PTO: 21 business days + UK bank holidays

Qualified candidates should send their CV and cover letter to hr@quantum-solutions.com



QUANTUM SOLUTIONS

Address: 1 Venture Road, Southampton Science Park, SO16 7NP, Southampton, UK

Web: www.quantum-solutions.com

E-mail: info@quantum-solutions.com

Tel.: +44 73 89826941