

Nanomaterial scientist

Quantum Solutions, a worldwide leader in cutting-edge quantum dot technology for wide-range image sensors, is seeking to employ a highly motivated and skilled Nanomaterial Scientist for the role of Product Developer. This is a full-time position located at Southampton Science Park. The successful candidate will work on developing and optimizing the synthesis process of quantum dots for image sensor applications, which will have an impact on the semiconductor industry.

The main responsibilities include:

New product development

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

QD synthesis development

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

Customers relationship

Discuss technical details with industrial partners and customers (sensor companies), 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 patent applications, marketing, and sales materials.

Required experience/skills:

- Proven expertise and long-term experience on quantum dots colloidal/semiconductor nanocrystal synthesis for use in optoelectronic devices, particularly photodiodes
- Desire to work for a deep tech startup company and create impactful technologies by developing QDs products for the semiconductor industry
- PhD in either chemistry or material science
- Strong knowledge of materials characterization techniques, including UV-vis-NIR spectroscopy, FTIR, TEM, and SEM



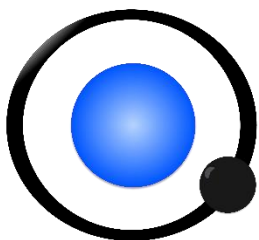
- Ability to work independently and collaboratively in a fast-paced startup environment
- Strong problem-solving skills and attention to detail
- Advanced data analysis and presentation skills
- Communicative and work well with multidisciplinary groups

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 (7-8 days)

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



QUANTUM SOLUTIONS

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