



Quantum Science Ltd

Senior Synthetic Material Chemist

Location: Daresbury, Warrington

Salary: Up to £40k

Hours: Full time

Contract Type: Permanent

Role Overview

Quantum Science Ltd (QS) is seeking a Senior Synthetic Material Chemist to join our R&D team based in Daresbury, UK. As a member of the team, you will have the opportunity to work on exciting optoelectronic and bio-sensor projects and to shape our future technologies. QS is a technology leader in advanced semiconductor materials and is pushing the leading-edge technologies for emerging markets such as next-generation smartphones, advanced driver-assistance systems, industrial automation, and medical applications.

You will be a key contributor to a small team of technologists supporting new product development within QS as well as driving research efforts into next-generation technologies. You will be given the flexibility to succeed in an environment where your success is measured by our well-defined performance metrics and provided avenues to reach your individual career goals while fulfilling the company's mission. QS will consider supporting work visa for exceptional overseas candidates.

The work environment is fast-paced and requires comprehension and resolution of complex problems. A high level of self-discipline, initiative, and motivation is required as you will need to handle and prioritise multiple tasks simultaneously, with minimal supervision. Diligence towards meeting project requirements on schedule is essential.

Company and Business Overview

Quantum Science is a leading material innovation company with strong portfolio of intellectual properties. We contribute to society through material innovations to transform image sensors, to change the way we detect diseases, and to introduce more efficient and cost-effective membrane technology for clean water.

We have fostered strong relationships with leading research organisations and industrial partners to keep us at the forefront of innovation while achieving a stable foundation thanks to investors who share our long-term vision. Several of our R&D team innovators are from top universities in the world.

We work closely with research and business partners to develop innovative technologies and then license the developed technologies to create a win-win partnership with our customers.

Our company is based in Daresbury National Laboratory, Warrington

Main tasks and responsibility

- Design, synthesis and characterisation of nanomaterials
 - Plan development work and experimental strategies for a different type of nanomaterials
 - Synthesize different types of semiconductor nanomaterials
 - Routine characterisation of nanomaterials using different techniques
 - Analyse data and suggest solutions to improve target properties
- Surface modification of nanomaterials to make them compatible with the required media/matrix
- Writing progress technical reports, invention disclosure clearly, accurately and delivered on time and patents if required
- Actively contributing ideas to the team and company,

Skills and Experience

- PhD in chemistry, material science or equivalent degree with deep knowledge in different classes of colloidal nanomaterials
- Excellent nanomaterial design and synthesis skills for optoelectronic and biosensor applications.
- Extensive experience in quantum dots synthesis and characterisation.
- Experience with surface modification of nanoparticles
- Require to be creative and innovative to generate and implement ideas
- Critical thinking/problem solving
- A can-do attitude and good team player
- Excellent verbal and written communication skills
- Good presentation skills
- Well organised and ability to manage, prioritise and address forthcoming issues
- Good numeric skills
- IT skills: Microsoft Word, Excel, PowerPoint

KPI's:

- Achieving project milestones
- Reporting results to Head of R&D in a timely manner
- All invention disclosures/ patents filed in a timely manner
- All samples are sent to other teams and customers in a timely manner
- Perform proper characterisation on samples
- Identify needed equipment and carry out procurement if necessary

Benefits Package

- Competitive salary
- Performance-related bonus system
- Pension contribution
- Life insurance

Qualified candidates should send the CV to HR@qscis.com