

Job Description

Job Title Head of Security Division (Physicist, Chemist, Opto-electronic Engineer)
Company Cascade Technologies
Reports to Technical Director

General Company Description

Cascade Technologies provides innovative gas fingerprinting solutions for the emissions and hazardous materials markets. With an innovative technology, the company has already gained significant commercial deals with blue chip companies in the UK and USA and has ambitious plans for growth.

General Role Description

Cascade is seeking a Head of Security Operation to join its Security Division and lead a team of qualified and diverse individuals. He/She will be able to provide strategic direction and full spectrum of support to the division. He/She is expected to work not only with external users, but also with the other partnering organisations on collaborative projects. The candidate will program lead a team applying advanced engineering, physical sciences, and analytic principles in developing innovative solutions to the security field, primarily directed at the detection of hazardous materials using mid infrared based technologies. We are specifically interested in the application of mid infrared semiconductor diode lasers such as QC Lasers that can be engineered for deployment on a variety of security platforms. Cascade's systems are based on using common mid infrared absorption spectroscopy techniques to advanced active/passive hyper-spectral imaging solutions aiming at producing ultra low power remote sensing devices to highly performing smart sensors.

The HSO must have a working knowledge of hazardous device construction and usage forming a potential security threat such as improvised explosive device (IED), and have familiarity with the UK, European and US stakeholder policies as well as an understanding of the regulated and non regulated security markets. He/She must be have operational experience, and work as a member of a team with strong interpersonal, writing and speaking skills, able to support task completions with minimal guidance and supervision. The candidate must be a UK or European citizen, have resided in the UK for the last 5 years and have active UK SC credentials or able to receive the necessary security clearance by the UK authority. The position involves technical leadership, program management, business development, customer interaction and international travel.

Duties and Responsibilities

- Provide operational and project management to the Security Division
- Lead planning, setting-up and execution of programs
- Identify security capability gaps and provide recommendations on potential technology solutions
- Interface with government stakeholders, agencies, end users and security solution providers
- Support the integration of emerging technologies into current and future techniques and procedures
- Support the execution of programs involving the integration of multiple security solutions
- Support the design optoelectronic solutions/systems/concepts
- Report on solutions/product performance and assess/review new technologies
- Develop proposals for adoption of new technologies
- Attend presentations and submit publications

Qualifications, Skills and Experience

- Postgraduate , in Physics, Opto-electronic Engineering, Chemistry or an equivalent field
- Carried out post doctoral research and or gained 5-10 years experience in the field of security
- Demonstrated record of highly creative, independent research
- Strong track record in collaborative research and working effective as a team member
- Ability to establish and operationally lead research projects
- Ability to lead a team of professional scientists and to interact effectively with a broad range of colleagues
- Ability to recommend new directions, methods, and techniques
- Developed and tested optoelectronic components
- Knowledge of laser spectroscopy
- Excellent interpersonal, analytic, and leadership skills

Hours

This role will involve working 10 am to 4 pm core hours, with a normal working week of 42.5 hours with an hour per day for lunch. However time input will be flexible due to requirements of job.

Shift working may be required as the business develops.

Travel will be required.