

## ***Role Profile: Lead R&D Engineer***



Units 4&5, Bavelaw Business Centre  
46A Bavelaw Road  
Edinburgh EH14 7AE

UniKLasers develops and produces novel CW Single Frequency, Diode Pumped Solid State (DPSS) lasers for demanding applications in:

- Leading edge research
- LifeSciences and associated BioMedical areas
- Semiconductor metrology
- Environmental Metrology, and many others
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UniKLasers is the only company to be able to configure Continuous Wave, Single Frequency Lasers to uniquely emit at any wavelength covering the spectral range from Near Infra-Red to Ultra-Violet from a single universal technology platform, using proprietary patented BRaMMS technology.

This novel patented technology provides reliable, cost effective, compact all-solid-state and class leading solutions for both well established and currently unavailable, but demanded, wavelengths. This opens up applications in portable and remotely controlled systems and devices, which have been never before considered feasible.

**Area:** R&D and Manufacturing

**Reporting to:** CTO

**Headline mission:** Profit-minded product innovation

UniKLasers' Lead R&D Engineer has a good understanding in the company's proprietary and patented technologies and its Know-How. UniKLasers' Lead R&D Engineer keeps up to date with cutting edge research and developments in the field of Single Frequency DPSS lasers, and areas of Photonics that might have an impact on the company's technical direction and growth.

### **Job Description:**

The primary function of Lead R&D Engineer is to identify and progress opportunities for delivering improvements within UniKLasers' products, identification of competitive technologies and products, opportunities for innovation and increase of profit margin, whilst working in close partnership with the company's management and external project teams.

The Lead R&D Engineer is a member of the management team and is an influencer of company's technological progress.

The Lead R&D Engineer is responsible for prototyping and design of company's project-based products or product improvements, including optical and opto-mechanical layouts, controlling electronics interface, outline of all technical (SolidWorks and AutoCAD) documentation.

UniKLasers' Lead R&D Engineer works on new options and solutions to manufacturing or technological problems, helping to improve and grow its' already the world-largest portfolio of CW Single Frequency DPSS lasers.

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### **Responsibilities**

- Drive revenues and cost reduction through technological enhancements
- Offer technological solutions to day-to-day business problems and customers' requests
- Create and update the company's technological and technical documentation and implement safeguard processes around it
- Engage and maintain strong mutually beneficial relationships with customers, suppliers and project partners driving successful long-term business collaboration
- Collaborate with the appropriate teams to assess and recommend technologies that support company product needs
- Lead the delivery to cost & timescale of R&D projects and customers' programmes
- Generate information for company's technical publications (white papers, blogs, articles, etc.)

### **Required Skills and Experience:**

- Degree (MSc or PhD level) in Lasers /Engineering / Optoelectronics/ Photonics
- R&D experience in Diode Pumped Solid State Lasers, nonlinear doubling of solid-state and diode lasers and / or relevant fields
- Working knowledge of 3D SolidWorks Design, MathCAD/AutoCAD
- 6 years+ of relevant experience
- Ideally, previous SME business/start up experience
- Technical management skills and desire for entrepreneurship

**Personal characteristics:** confident, consistent, resilient, innovative, eager, start-up mentality, positive, charismatic, analytical, problem-solver.

**External Relationships:** optical and materials suppliers, technology partners, joint R&D project partners, potential customers.