

April 2008

### **Optoelectronics Engineer Brief**

OptiSynx is a start-up company on the Cambridge Science Park in the product development phase of a revolutionary, new, high-precision, proprietary time source. Markets are in wired and wireless communications and wherever it is important to accurately know time, such as in auditable time stamping, stock exchanges and billing systems.

This innovative product contains a mix of electronics, optoelectronic, mechanical design and control system elements. This leads to a requirement for specialists many fields, initially targeting a discrete component design and rapidly moving towards a fully integrated solution.

OptiSynx is looking for an expert level optoelectronics engineer to join this rapidly growing team.

#### Attributes.

- Good degree with optical design content i.e. Physics, Electronics or Optoelectronics.
- Expert in the field of optical and optoelectronic design and analysis with substantial relevant experience.
- Excellent analytical and problem solving skills.
- Experience in a broad range of optical system design and analysis including semiconductor lasers, fibre lasers, detectors, speciality fibres, optical amplifiers (EDFA).
- Expert in the use of relevant analytical modelling software such as MatLab.
- Familiar with leading edge optical component capability and technology trends.
- Good understanding of both the theory and operation of passive mode locked lasers.
- Experience in the generation and control of optical combs.
- Self motivated with the capability to develop a concept through to a product.
- Demonstrate excellent general engineering skills.
- Self motivated with the capability to develop a concept through to a final product.
- An enthusiastic team player with excellent communication skills.



#### Key Tasks.

- As a senior optical specialist you will be the technical focal point for the optical system
- You will be responsible for:-
  - System architecture and design.
  - Component selection.
  - System and component level simulation.
- Build, characterisation and test.
- Take ownership of design documentation.
- Ensure that the design can be made in the most cost effective manner and still meet exacting performance requirements demanded by the team.
- Work closely with the development team to provide interactive feedback leading to design improvements.
- Attend regular team meetings, be an active participant of the design process and report progress against milestones.

To apply for this position please email your CV with covering letter to [recruitment08@optisynx.com](mailto:recruitment08@optisynx.com)