



February 21, 2020

## VCSEL Scientist

**About Us:** Vixar is a subsidiary of Osram Opto Semiconductor. Vixar manufactures short wavelength (660nm-1000nm) VCSEL-based optical components and subassemblies for sensor and device applications within the biomedical, industrial, office product, automotive and consumer industries.

This could be your opportunity to join the exciting technology industry in a fast-paced, challenging environment!

We offer a unique opportunity to make a significant contribution to our growing company. For more information, please visit us at [www.vixarinc.com](http://www.vixarinc.com).

### Qualifications:

Vixar is seeking a VCSEL scientist to help drive growth of the company. We are looking for candidates with the following attributes:

- An M.S. or Ph.D. in physics, materials science, electrical, or optical engineering
- VCSEL design experience
- Hands on experience in epitaxial growth and/or optoelectronic device wafer processing
- Skilled in optical and electrical testing, including high speed characterization
- Familiarity with software and CAD tools for supporting device design
- Knowledge of design for high device reliability
- Enjoys working collaboratively and on interdisciplinary teams
- A strong orientation toward internal and external customer satisfaction
- A disciplined approach to project management, product development and problem solving

### Job Description:

The successful candidate for this position will be responsible for designing, developing fabrication processes for and the testing and evaluation of VCSEL devices. Responsibilities include:

- Translate customer requirements into a VCSEL device specification

- Design VCSEL devices, including the specification of the required epitaxial layer structure, the specification of the post-epi growth process to be used, and the layout of the mask to be used for the fabrication
- Perform electrical and optical modelling to predict device performance and to assist in the refinement of the designs
- Work with outside foundries to develop fabrication processes and to adapt designs to foundry capabilities
- Carry out VCSEL device characterization including optical and electrical testing under DC, pulsed and high speed conditions
- Suggest and/or develop process and test modifications for improvement of performance or yield
- Provide technical support to the sales team and to customers

**Please send resumes to:**

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