



## **Job Description**

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Job Title: **Senior Fiber Optics Scientist**

Reports to: VP R&D

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### **Purpose of the position:**

The Senior Fiber Optics Scientist is responsible for the improvement of existing technologies and the development of new technologies for manufacturing fiber optics components for fiber lasers, fiber sensing, telecom and medical industries.

The Senior Fiber Optical Scientist needs to have extensive hands on experience in fiber optics with a broad understanding of fiber technologies and manufacturing. He will need to manage the R&D lab at Vytran and also will have external responsibilities focused on establishing and nurturing technology partnerships (such as government labs, customers, vendors... etc.) to increase technology and application knowhow and sustain competitive advantages. As such she/he will pro-actively disseminate technical and product information outside the company and collect technology and product competitive information. She/he is also the primary motivator for IP and knowhow.

Additional responsibilities include leading and managing the development of new technologies and new products.

### **Skills Required**

- Advanced degree in Electro-optical Engineering or Applied Physics (Ph.D. preferred)
  - More than four years of post-graduate academic or industrial research experience in the development and characterization of fiber optical components, fiber lasers or fiber optical systems.
  - A unique combination of analytical skills and hands on experience in assembly and characterization of optical fiber components
  - Strong background in optical wave-guide theory, optical package, and optical test processes.
  - Experience in some of the following area is a must: high-power fiber lasers, fiber optical amplifiers, optical fiber sensors, semiconductor laser
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or PLC pigtails, multi core fiber assemblies, beam characterization of visible lasers, non-linear optical effects in fibers, large core multi-mode optical fibers, optical fiber end caps, optical fiber splicing, optical fiber tapering, optical fiber cleaving, optical fiber polishing, including laser polishing, optical fiber mode stripping, metalized optical fibers, optical fiber soldering.

- Demonstrated track record of novel research via publications, patents, etc
- Excellent communication, teamwork and leadership skills; ability to lead discussions with business and academic partners regarding research results and direction
- Knowledge of computer-aided design and simulation tools for optoelectronic and photonic devices.