



# Field Application Engineer

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Vescent is searching for a Field Application Engineer. The successful candidate will become an expert user of Vescent products and lead in quantifying the performance of these products in various use case scenarios. This is a customer advocate position in which the FAE will answer how-to and what-if questions from internal and external customers. The FAE will also assist Production and R&D by applying their product knowledge and trouble-shooting skills in various situations.

## Duties:

- Become product expert familiar with all usage aspects of all Vescent products
  - Overall product functionality & purpose
  - Options, settings, & interactions with other Vescent and 3<sup>rd</sup>-party photonics tools
- Set up use cases of products, as requested by internal and external customers, to
  - Determine performance in given configuration and/or suggest alternative configurations
  - Write internal and customer-facing reports (application notes) and/or produce short videos summarizing methods & results of above experiments
  - As appropriate, publish videos on Vescent YouTube channel
  - Assist in certification management in conjunction with R&D
- Be the Customer's voice
  - Advocate for customer requests for use-case data and product modifications
  - Promote enhancements and fixes to products.
- Manage user manuals for all products
  - Learn proper usage from Development team
  - Author and maintain online manuals
- Stage Trade Shows & Exhibitions
  - Collect & organize collateral to be shipped to display location
  - Some travel
- Be "customer zero" for new products being transferred from R&D to Production
  - Test all aspects of product performance
  - Find & report product foibles, defects, and non-conforming behaviors
  - Conduct product software testing and integration
  - Suggest product improvements
- Assist Production with
  - Qualifying/testing engineering change orders
  - Troubleshooting & repairing failed product units (RMAs)

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## Required Qualifications:

- Bachelor's degree or above in Physics, Engineering Physics, Electrical Engineering, or Physical or Analytical Chemistry
  - Emphasis in optics/lasers/spectroscopy
- >2 years of hands-on experience in optics/lasers/spectroscopy in commercial setting
- Experience making measurements with electronics test equipment (e.g. oscilloscopes, multimeters, spectrum analyzers, frequency counters, etc.)
- Electronics background, including troubleshooting and board reworking
- Self-starter, life-long learner
- Able to work independently and as part of a team
- Ability to design, build, and operate laser-based experiments
- Experience with programming and testing software
  - Emphasis on Python
- Excellent scientific writing and communication skills: Ability to collect, collate, analyze, and present data in concise written and oral formats
- US citizen or permanent resident

## Desirable Additional Skills:

- Experience in photonics relevant to atomic, molecular, and optical physics (AMOP), quantum sensing, and frequency combs
- Further programming abilities
  - Web-based skills in HTML and/or Magento
- Photography and/or videography including software editing

Vescent is a leading designer and manufacturer of precision lasers, frequency combs, and control electronics for use in atom cooling, quantum sensing, and other optical physics applications. Located in Golden, CO, Vescent offers an excellent opportunity for career growth in the photonics industry as well as access to the urban culture and outdoor recreation of Denver, Boulder, and the Rocky Mountains. Situated within the world-renowned educational and research nexus of the University of Colorado, NIST, JILA, NCAR, and the School of Mines, you will be living in a highly desirable area. Benefits of employment at Vescent include PTO, health/dental insurance, and participation in the company 401k retirement and phantom stock plans.

Please send your resume and a cover letter to [jobs@vescent.com](mailto:jobs@vescent.com). Your cover letter should express how your skills, qualifications, and interests address the job description. Applications without a resume and cover letter will not be considered. Vescent Photonics is an equal opportunity employer.

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