

LASER DEVELOPMENT ENGINEER

Radiantis is a globally recognized leader in the design and manufacturing of advanced solid-state lasers and optical parametric oscillators. Our innovative technologies play a pivotal role in fields such as non-linear microscopy, spectroscopy, and a wide range of cutting-edge research applications.

Since our founding in 2006, we have earned the trust of prestigious universities, research centers, and institutions worldwide by delivering high-performance, reliable solutions that meet the exact demands of advanced scientific research, enabling groundbreaking discoveries.

We pride ourselves on fostering a culture of innovation, excellence, and collaboration. We are currently seeking a Control Engineer to join our talented team

Responsibilities:

As a Laser Development Engineer in this role, you will contribute to the development of advanced laser systems by designing, building, and validating optical, opto-mechanical, and control solutions for our laser and OPO platforms. Your work will directly impact the performance, stability, usability, and reliability of our products, from early prototypes through to industrialized systems used by leading research laboratories worldwide.

Your main responsibilities will include:

- Simulation and design of laser and optical parametric oscillator (OPO) cavities, including nonlinear modelling and performance optimization.
- Complete optical design of laser systems, including material selection, optics, coatings, and dispersion management.
- Mechanical design of opto-mechanical subsystems with a focus on stability, alignment, and industrial robustness.
- Development of control systems, automation, and associated electronics (motors, piezo actuators, sensors, interlocks).
- Hardware and software integration for system control (firmware, control scripts, basic user interfaces).
- Construction, alignment, and validation of laser and OPO prototypes.
- Experimental characterization of performance: power, spectrum, stability, noise, efficiency, and reliability.
- Analysis and troubleshooting of complex technical issues during development and validation phases.
- Preparation of complete technical documentation: schematics, assembly, alignment, and test procedures.
- Technical support to manufacturing for industrialization, scaling, and continuous improvement of production processes.
- Management of technical requirements and support for regulatory compliance and CE marking.
- Occasional technical support for customers, distributors, and advanced applications.

Requirements:

We are looking for a self-motivated professional who thrives in a dynamic and collaborative team environment. You will be responsible for the success of your assigned projects. Key qualifications include:

- A PhD in Physics or Engineering is required.
- Previous experience in laser cavity design and/or implementation will be advantageous.
- 3D CAD skills, ideally Inventor is desired.
- Good programming skills in Labview or Python would be an asset.
- Good oral and written communication skills in English would be advantageous.

The successful candidate will be very motivated, dedicated and able to work productively in a small and dynamic team. The candidate will be expected to take responsibility for the success of the assigned projects.

This position is at the cutting edge of laser technology and offers challenges in the technical development of products.

To apply please send your CV and cover letter to cv@radiantis.com with the subject LASER2026.