

### **Physicist for Advanced Designs and Fabrication.**

Raicol innovation lab is looking for an experienced physicist.

Raicol innovation lab aims to change the photonic market by introducing new disruptive components for quantum and PIC application. This is a small and innovative team developing new low loss quantum components, on novel materials, integrated into photonic integrated circuits.

The physicist will be in charge of designing, simulating, fabricating and measuring, passive and active optical components in micron and submicron dimensions for a variety of novel applications. The work will be conducted in collaboration with world leading academic groups and companies in the field of material processing and quantum systems.

#### **This is a Hands-On position.**

The ideal candidate will have vast R&D experience, knowledge and hands on experience in nanofabrication and clean room facilities, excessive work in simulating light-matter nonlinear interactions and propagation through different mediums, proven leadership experience, thinks big, able to troubleshoot and overcome challenges, and is a problem solver with out of the box ideas. The candidate should be able to work independently and, in a team, cooperate with other team members inside and outside Raicol and brainstorm on all the different team projects and challenges.

#### **The candidate should have:**

- Experience in simulating optical systems.
- Masters Degree in Physics, Material Eng., Electro-optical engineering or relevant\equivalent experience.
- Experience in nanofabrication and characterization techniques.
- Experience in nonlinear optics and/or materials- advantage
- Experience in quantum photonics - advantage.
- Experience in Waveguide design and fabrication - advantage
- Fluent speaking, writing and technical writing in English.
  
- PhD is a major advantage.