

Robotics Engineer

Location: Rochester NY, United States

Company Description

RAM Photonics has its headquarters in San Diego CA, with facilities in San Diego CA and Rochester NY. The company portfolio includes specialty optical and optoelectronic systems for defense, commercial, and industrial applications, including advanced signal processing, high-power laser, and instrumentation systems. RAM Photonics seeks capable, creative, and driven contributors skilled at communicating and performing within a technical team composed of leading photonics, electronics, and software engineers.

Job Description

The Robotics Engineer will be responsible for development of and will contribute to the commercialization of a new class of technology for manufacturing high-power laser systems. The candidate is expected to: contribute to overall system specifications; design and construct precision robotic systems and subsystems for handling and processing optical fiber; and work with suppliers and manufacturers to design for manufacturability and take technology to production. The exact title and level assigned to the position will depend on the candidate's experience and capability.

Experience Requirements:

- B.S., M.S., or Ph.D. in Mechanical Engineering or related field.
- At least 3 years of experience in robotic system design.
- Track record of designing and building robotic systems with extensive experience in precision motion and machine vision.
- Relevant experience in system architecture, including broad technical knowledge in mechanical design, electronic controls, precision motion and positioning, optical fibers, and lasers.
- Experience in grabbers/grippers (mechanical and vacuum) for handling and handoff of small, sensitive payloads.
- Experience in machine vision and sub-micron precision positioning and motion.
- Experience in design, fabrication, and testing of custom electro-mechanical components and sub-systems.
- Experience in off-the-shelf robotic components and subsystems, including electronics and programming.
- Experience in schematic capture tools, version control, and CAD tools.
- Structured modeling and hands-on capabilities in robotic system design and development.
- Comfortable in the lab assembling mechanical components and electronics, soldering boards as needed.
- A self-starter and team player with excellent communication skills.

Desired Skills:

- Familiar with at least one CAD package, preferably Solidworks.
- Programming control experience in LabVIEW, C++, Python, or similar software.

Qualified applicants should submit resumes with a cover letter to: employment@ramphotonics.com