



## ***Douglas Scientific is now recruiting for:*** **Detection Systems Engineer/Scientist**

**Douglas Scientific** is a biotech company owned by Douglas Machine Inc. in Alexandria, MN. The company is a global leader in ultra high throughput laboratory automation based upon a patented Array Tape™ technology. Douglas Scientific is growing rapidly and is currently accepting applications for a Detection Systems Engineer/Scientist. For more company information, please visit [www.douglasscientific.com](http://www.douglasscientific.com).

**Detection Systems Engineer/Scientist - Position Summary:** The Detection Systems Engineer/Scientist position is responsible for the technical leadership in establishing world class advanced detection systems for the Douglas Scientific (DS) product offering. The position will be involved in leadership by contributing in the continuous improvement of the currently offered detection systems and joint development integrations of best in class solutions to DS format with industry leaders.

A current and in depth understanding of the design and performance of products currently on the market is a mandatory starting point for this position. This position also requires an individual who has an established network of industry contacts prior to joining the company.

### **Detection Systems Engineer/Scientist - Position Responsibilities:**

- Investigate and assess optical approaches of best in class scanning solutions within industry to help guide and assist in the development of DS products. Interaction with industry leaders will be required in this capacity.
- Lead the development of Multimodal Detection Systems capable of providing the modes of Absorbance, Fluorescence Intensity, Fluorescence Polarization, TRF/TR-FRET, Luminescence, Alpha Chemistry Detection, and possibly others. The development may be conducted within DS engineering or by collaboration.
- Lead the advancement of the core optics discipline.
- Produce and reconfigures optics design packages using new/existing technology within the industry.
- Identify opportunities for cost reductions and quality improvements in equipment.
- Serve as project team member, accountable to Project Manager for project deliverables.
- Cooperate with other disciplines in development activities including software electrical design, mechanical design, document control, quality engineering and manufacturing.
- Required to travel to customer sites to resolve machine/commissioning problems when necessary.

- Mentors and coaches colleague engineers, technicians, field service technicians, and manufacturing personnel.
- Interacts in a professional manner frequently with internal associates, external customers and suppliers.
- Performs engineering analysis on critical form and function areas.
- Promotes/utilizes corporate processes including: design and development, verification and validation, engineering change control, and risk assessment for all designs.
- Responsible for complying with all safety policies and procedures.

### **Detection Systems Engineer/Scientist - Knowledge and Skills Requirements:**

- M.S. degree or better in Electrical Engineering or Physics with optical emphasis and a minimum of 3 years industry experience in related field.
- Undergrad degree in Electronics Engineering is beneficial as are foundational competencies in robotics, electronics design, and machine/system software.
- Requires an individual who has an established network of industry contacts.
- Demonstrated success in the optics design.
- Consistently exceeded expectations in previous role.
- Strong creativity and problem solving skills.
- Effective oral and written communication skills.
- Experience with optical design and ray tracing software.
- Experience with MATLAB, Labview and ZEMAX a plus.
- High proficiency in the use of personal computers and related software.
- Experience in Microsoft .NET technologies (VB.net, C#) a plus.
- Experience in Web programming and technologies (HTML, JavaScript, etc) a plus.
- Experience in PLC controls and IEC-61131 (TwinCAT software) a plus.
- Experience with electrical circuit design and prototyping specifically with PLC hardware, embedded systems, RS232, Ethernet and network systems a plus.
- Computer Aided Design (CAD) experiences a plus.

### **Apply Today!**

Douglas Scientific offers competitive compensation and an excellent benefits package that includes an Employee Stock Ownership Plan (ESOP), 401(k) match, medical, dental, life and disability insurance, along with holiday pay and paid time off.

To apply, e-mail resume and cover letter to Human Resources at: [HireMe@DouglasScientific.com](mailto:HireMe@DouglasScientific.com).