

Job title	<i>Mechanical Engineer</i>
Field	<i>Scientific Instrumentation, Analytical Instruments, X-Ray Fluorescence, X-Ray Imaging, Medical Imaging, Physics,</i>

Job purpose

To plan and execute mechanical design in a range of areas for innovative and advanced scientific instruments and devices. Designs must account for electrical, mechanical, and software aspects of the instrument and must be developed with CAD documentation throughout the development process.

Duties and responsibilities

- Development of Scientific Instruments and Devices
- Execution of Mechanical Design Principles for Instrument Development
- Reporting of Data
- Management of Projects
- Searching, Reviewing, and Evaluating instrument designs

Qualifications

Preferred:

- Bachelor's degree in Engineering or engineering technology
- Must be able to translate project needs into the design of hardware
- Strong aptitude in math and physics
- Strong Communication Skills
- Excellent problem solving skills
- Ability to think outside the box
- Excellent Engineering reading and writing Skills
- Use of related CAD software such as Autodesk, AutoCAD, Inventor, Solidworks
- Hands on Experience building circuits, assembling hardware, design of scientific apparatuses
- Using machining equipment such as mill, lathe, CNC equipment, 3D printers
- Diligence in Engineering Design Principles, Commitment to meeting deadlines

Working conditions

Working in an SBIR environment, the Engineer will work within teams in a hands-on environment to meet the project requirements.

Physical requirements

The execution of work begins in team meetings where the project needs are discussed, the engineer then translates these needs to mechanical designs through CAD software and then ensures that the parts are machined and assembled correctly to fulfill the project needs.

Direct reports

Report to the President of the Company.