

# Associate R&D Engineer / Scientist

Engineering | Bellevue, WA | Full Time



# MODERN ELECTRON

## JOB DESCRIPTION

Modern Electron has an immediate opening for a junior R&D engineer/scientist. You will join the R&D team and work on the innovation of devices using the company's state of the art technology and processes. Particular focus will be on laboratory electronics and automation, design and maintenance of vacuum systems, and characterization of nanomaterials. You will work with a team of physicists, chemists, material scientists, electrical engineers, and technicians. This position will report to the CTO.

Modern Electron is a start-up company dedicated to generating cheap, modular, and reliable electricity for all. Expensive mechanical engines and turbines based on 19th-century technology still generate the majority of the power used worldwide. We seek to replace them with paper thin heat-to-electricity generators. Venture capital funding is committed to our vision. We are in the early stage of commercialization, with enormous potential for learning, impact, and growth in a small and collaborative team setting. We value our ability to move fast to outpace larger companies and achieve what they cannot.

### **ESSENTIAL SKILLS, KNOWLEDGE AND ABILITIES:**

- Laboratory electronics and programming (LabView, Matlab, Python) for control of scientific instrumentation and automation of data acquisition
- Electron microscopy and other materials characterization techniques (e.g. scanning electron microscope, optical microscopy, electrical measurements, etc.)
- Vacuum system design and maintenance (high and ultra-high vacuum)
- Thorough knowledge of laboratory safety and standards for cleanliness and repeatability in experiments
- Additional experience with nano/micro-fabrication techniques (lithography, thin film deposition, wet and dry etching, etc.) is beneficial

### **QUALIFICATIONS:**

- B.S. or M.S. in Physics, Chemistry, Materials Science, Electrical Engineering, Mechanical Engineering, or similar. At least 2-3 years of prior hands-on industrial laboratory experience preferred.

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