Modern Electron is looking for Junior R&D Engineer/Scientist

We are a start up in Seattle dedicated to generating cheap, distributed, and reliable electricity for all. Expensive mechanical engines and turbines based on 19th-century technology are still used to generate >80% of today’s electricity worldwide. Modern Electron seeks to revolutionize the industry with direct heat-to-electricity generators. >$10 MM venture capital is committed to our vision. We do novel work at the intersection of nanofabrication, material science, thermal engineering, and vacuum science.

Visit us at http://modernelectron.com/join-us/ to find out more.

Modern Electron has an immediate opening for a junior R&D engineer/scientist. A highly qualified engineer will join the R&D team and work on the innovation of devices using the company’s state of the art technology and processes.

Modern Electron has an immediate opening for a junior R&D engineer/scientist. A highly qualified engineer 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:

- Vacuum system design and maintenance (high and ultra-high vacuum)
- Laboratory electronics and programming (LabView, Matlab) for control of scientific instrumentation and automation of data acquisition
- Electron microscopy and other materials characterization techniques
- 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
- Additional experience with low work function materials, surface chemistry, and/or thermionic converters is beneficial

MINIMUM QUALIFICATIONS:

- B.S. or M.S. in Physics, Chemistry, Materials Science, Electrical Engineering

We are an equal opportunity employer