

# MODERN ELECTRON

## JUNIOR R&D ENGINEER / SCIENTIST

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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