

Materials Design Engineer

Full Time, Immediate Availability

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QuesTek Innovations LLC, located in Evanston, IL, a leader in the field of integrated computational materials engineering (ICME), is seeking candidates for a Materials Design Engineer in its Technology group to perform work related to the design and development of new alloys.

The primary responsibilities and activities of this position will include:

- Work with and lead project teams and research consortia to design and invent new materials
- Manage project activities including experimental work such as fabrication, processing, characterization, and testing of prototype materials and theoretical work such as thermodynamic modeling using CALPHAD-based applications and materials design-based software development
- Lead scientific model development and internal research and development activities
- Interact with customers and end-users to define design requirements and identify new opportunities
- Document and report on both internal and client based material design efforts
- Assist and lead proposal efforts for internal and client based projects

A strong understanding of materials science and physical metallurgy, excellent communication skills, and a graduate (Ph.D. or equivalent) degree in materials science or a related field are required. Preferred candidates will also have experience on some or all of the following areas:

- ICME-based design of materials/metal alloys
- Applied use of thermodynamic & kinetic computational tools (i.e., ThermoCalc & DICTRA software)
- In-depth understanding of process-structure and structure-property relationships in alloy systems
- Laboratory skills related to materials processing, characterization, and testing
- Processing of materials (e.g. melting, hot/cold working, heat treating, additive manufacturing, etc.)
- Basic programming skills (e.g. Python or similar)
- Good engineering design and problem solving skills
- Background or experience working in the metals, aerospace, energy, defense, or related industries

Compensation will be commensurate with experience and will include competitive benefits such as health insurance and a 401(k). QuesTek will only employ those who are legally authorized to work in the United States. Interested candidates shall submit their resumes and a cover letter summarizing how their experience would allow them to excel in this position via the Careers page of <http://www.questek.com/careers.html>. No phone calls, please.