



*Creating Materials & Energy Solutions*  
U.S. DEPARTMENT OF ENERGY

## **Postdoctoral Research Associate**

Critical Materials Institute

Ames Laboratory

Iowa State University

The Critical Materials Institute at the Ames Laboratory, a Department of Energy National Laboratory affiliated with Iowa State University, is searching for a qualified Postdoctoral Research Associate.

We are looking for a candidate with a strong background in computational magnetic materials theory and simulation, in particular the magnetocrystalline anisotropic properties of permanent magnetic materials, and how these properties are affected by crystal environment and site substitution. The candidate will work with full-potential linearized augmented plane wave method, therefore experience with this method is a requirement.

The successful candidate for this position will be collaborating with an interdisciplinary group of theorists and experimentalists from condensed matter, materials, and chemical sciences. Therefore, the successful candidate must be able to effectively communicate with a variety of audiences.

**Required Qualifications:** Ph.D. in Physics, Chemistry, Materials Science or closely related field must be completed prior to start date; Expertise in density functional theory based electronic structure calculations with extensive experience with full-potential approaches.

**Preferred qualifications:** 1) Evidence of ability to work individually and as part of a team. 2) A highly self-motivated and independent researcher. 3) A strong track record of first author publications in peer reviewed journals.

Interested candidates should submit 1) a cover letter detailing specific experience; 2) current C.V.; and 3) contact information for three (3) references to: [DFTmagnetpostdoc@ameslab.gov](mailto:DFTmagnetpostdoc@ameslab.gov).

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