The Department of Metallurgical and Materials Engineering (MME) at Colorado School of Mines invites applications for a Postdoctoral Research Associate in the Center for Welding, Joining and Coatings Research (CWJCR) to begin September 1, 2015. The position is a three year appointment (based upon satisfactory performance). Mines is a public research university devoted to engineering and the applied sciences and has the highest admission standards of any university in Colorado. Mines is located in Golden, Colorado in the foothills of the Rocky Mountains, 15 miles west of downtown Denver and 20 miles south of Boulder.

Responsibilities: The Postdoctoral Research Associate will conduct research on computational simulations and experimental chloride atmospheric SCC regarding crack initiation and propagation, and role of stress distribution in a stainless steel canister in a dry storage system for used nuclear fuel. The duties also include state-of-art literature survey, writing scientific papers, preparation of reports and proposals, establishment of comprehensive electronic database, and training other team members. This position will be working with nuclear waste storage related topics; therefore the successful candidate must be able to access national laboratories for part of the research.

Qualifications: Requirements include:
- PhD degree in Materials Science and Engineering, Metallurgical Engineering, Mechanical Engineering, or Welding Engineering
- 3+ years’ experience with finite element modeling
- Strong background in weld residual stress simulation
- Familiarity with ABAQUS
- Strong laboratory skills
- Good communication skill to coordinate with team collaborators including national laboratories and universities

Preferred qualifications:
- Experience with simulation of stress corrosion cracking
- Experience with SYSWELD software

Compensation: $50,000 per year

How to Apply:

Required documents:
1. Cover Letter
2. Curriculum Vitae
3. Contact Information for References
4. Research Statement

Interested candidates should send their application materials to Prof. Yu (zyu@mines.edu).

*Mineral is an EEO/AA employer and is committed to enhancing the diversity of its campus community. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.*

*Employment with Mines is contingent upon the satisfactory completion of a background investigation.*