Post-doc opening

**Area:** Microstructure characterization of a developmental stainless steel under mechanical stress.

**Starting date:** January 2016

**Brief description of duties:**
The main focus of this position will be the study of microstructure characterization of a developmental stainless steel through TEM, in-situ tensile TEM and in-situ tensile synchrotron XRD experiments.

Candidates should hold a Ph.D. in Material Science or Nuclear Engineering and have strong backgrounds in materials characterization (particularly electron microscopy and XRD). Experience with mechanical testing is desired (creep, tensile tests).

The initial appointment will be made for 1 year, but will be renewable, upon satisfactory progress. The salary will be based on qualifications and experience. The starting date is January 2016.

Interested candidates should send their CVs, lists of publications, PDFs of no more than three (3) representative publications and the names of two (2) references by email to Dr Djamel Kaoumi: kaoumi@engr.sc.edu

**Application procedure:** contact Dr Kaoumi at kaoumi@engr.sc.edu

**Selection Criteria**

Applicants should have:
1. A background or experience with materials characterization (especially TEM and XRD)
2. A good ability/motivation for experimental work related to metals.
3. Experience with data analysis using matlab, C and/or Python is preferred.
4. Experience with mechanical testing is desired.
5. Good communication skills in English. Ability to write in English at a suitable standard for the preparation of publications.
6. Self-motivation and ability to meet agreed deadlines.
7. Ability to work effectively in a team including students, and interact effectively with collaborators.
8. Willingness and ability to travel in order to work with collaborators at the Argonne National Laboratory.

For further discussion of the project, please contact Dr Kaoumi at kaoumi@engr.sc.edu