Position Title: Student Research Assistant
Duration: 10-15 weeks
Location: University of Utah main campus (Salt Lake City, UT)
Status: Full Time (40 hrs/week)
Start Date: May 16 (or negotiable)
Salary: $14/hr (no fringe benefits)
Research advisor: Prof. Michael Simpson (Metallurgical Engineering)
Deadline to apply: April 11, 2014

Position Description

This position is to perform computational research for Dr. Simpson in the area of high temperature electrochemical processing (pyroprocessing). It is designed to be a full-time summer internship with flexible start and end dates. The student selected for this position will work closely with Dr. Simpson and one of his graduate students to simulate electrochemical purification using a FORTRAN-based model. Minimal emphasis will be placed upon making modifications to the code, but it will be helpful for the student to understand how it operates in case debugging is needed. The following tasks will be included in the project work scope:

- Literature survey and compilation of physical/chemical data
- Run the ERAD electrorefining model for a variety of input conditions
- Perform sensitivity analyses for ERAD model output
- Compile results of simulations and summarize in reports to Dr. Simpson

Position Requirements

Must be a current undergraduate student enrolled at the University of Utah. Preferably should be majoring in metallurgical, chemical, or nuclear engineering. Students studying related disciplines will also be given consideration. Should be effective at technical communication, including PowerPoint presentations and written reports. Preferred candidates should have completed at least 2 years of college-level study (Junior/Senior status). Lower level students will be considered with outstanding records. This opportunity is limited only to U.S. Citizens due to the source of funding.

Application Procedure

Interested applicants should e-mail their CV with three references to:

michael.simpson@utah.edu

Please include your current GPA on the CV in addition to a list of courses you have taken in technical subjects (math, computer science, chemistry, physics, engineering) with the letter grade you received.