



Space Science and Engineering Center  
1225 W. Dayton St. Madison, WI 53706

**JOB TITLE: Student Hourly, ICDS**  
**JOB ID#: 38235**

### **Position Description**

Open to registered full-time students. Ice Coring and Drilling Services (ICDS) is a unit of the UW Space Science and Engineering Center and operates under contract with the Nation Science Foundations. ICDS develops, maintains, and operates drills and related equipment for use by researchers working in the Arctic and Antarctic and on glaciers in temperate regions of the world. For a description of ICDS projects, please visit our website at [www.ssec.edu/icds](http://www.ssec.edu/icds). ICDS plans to hire a student for the remainder of the 2008 Spring Semester.

### **Required Qualifications**

- Enrollment as a full-time student for duration of employment
- Ability to lift and move items weighting up to 50 pounds
- Willingness to perform both manual and mental tasks
- Good time management skills and show a high level of initiative
- Effective oral and written communication skills
- Must be able to work well with other engineering and shop personnel
- Mathematics skills with at least one advanced mathematics course beyond high school geometry
- Knowledge of chemistry and familiarly with laboratory procedures
- Ability to learn to use various instruments used in engineering measurement (e.g. micrometers, volt meters.)
- Ability to conduct research using the Web
- Skill in using hand tools
- Ability to work safely

### **Preferred Qualifications:**

- Completion of two or three years of an engineering curriculum (e.g. mechanical or electrical)
- Completion of a college level course in chemistry and laboratory procedures
- Proficiency in Microsoft Word, Excel and PowerPoint
- Experience using AutoCAD and/or Solid Works
- Knowledge of FMEA package such as Algor

### **Duties**

- Assisting with the design of mechanical electrical components for ICDS's drill systems including the Deep Ice Sheet Coring Drill, the shallow coring/drills and the hot water drills
- Assisting with the fabrication/assembly of drill systems
- Assisting with the testing of drill systems and their individual components
- Assisting with the packing of drill systems for deployment
- Assisting with chemical testing of materials to be used in drill systems
- Assisting in the preparation of reports, proposals and presentations
- Assist with other duties including copying, making deliveries, tracking purchases, etc.

### **Hours**

- Must be available to work at least until the start of the fall 2008 semester
- Must be available to work during normal business hours (8:00AM-5:00PM, M-F)
- Must be available to occasionally work outside of normal business hours
- Must be available to work 10+ hours per week during school year
- Must be available to work 40+hours per week during summer

**Pay** \$9.00/hour depending on qualifications

### **Apply**

**By E-mail:** Send resume and transcript to: [camie.tucker@ssec.wisc.edu](mailto:camie.tucker@ssec.wisc.edu)

**In-Person:** Space Science and Engineering Center, 1225 W. Dayton St. 3rd fl.  
Leave resume and transcript in the box on the table outside room 303

**Job Title & Job ID# must be included**