



**Materials Design Institute
Research Summer School with
the National High Field Magnet Laboratory
at Los Alamos National Laboratory
June 6 – August 5, 2011**



Summary – We are currently soliciting applicants for the Materials Design Institute 2011 Research Summer School. The Materials Design Institute (MDI) has been established to engage and interact with the top students in the country. Within the MDI Research Summer School, students will receive technical training/lectures, professional development seminars, and laboratory experience with LANL staff and external mentors working on ongoing LANL research projects. At the end of the summer, students will be expected to present their work in a technical forum.

Students – The program is designed for 8 undergraduate students (incoming Junior or Senior). Attempts will be made to identify high quality students from diverse backgrounds, including academic, institutional, and human diversity. Acceptance into the program will be based on academic record and letters of recommendations. As a general guideline, students should have sufficient academic achievement that they are, or will be, eligible for graduate school. A variety of academic disciplines related to materials science are being sought, including all engineering disciplines, chemistry, and physics. A relocation allowance is provided for travel to and from Los Alamos. Housing is the responsibility of the student, however, we will work with the students to find housing after they have been accepted into the program. Salaries are based on completed course work. More information about LANL's student programs can be found at <http://www.lanl.gov/education>.

Projects – The theme of the 2011 Summer School is High Strength, High Conductivity Materials for High Magnetic Field Magnets. The Summer School will be run in conjunction with scientists through the National High Magnetic Field Laboratory – Pulsed Field Facility (NHMFL-PFF) at LANL. A variety of technical areas (both experimental and theoretical) will be explored, including characterization, mechanical properties, resistivity and texture evolution.

How to Apply – Students should email, mail, or FAX application materials to:



Debbie Wilke, LANL
P.O. Box 1663, MS: T011
Los Alamos, NM 87545
Email: dwilke@lanl.gov
Fax: 505-663-5504, Phone: 505-663-5621



The following materials should be included in the application:

- 1) A one page cover letter describing your interest in this summer school as well as your near term (1-3 year) academic and professional goals. Indicate your preference for a research project in experimental or theoretical activities as related to the above areas
- 2) a current resume
- 3) at least one letter of recommendation
- 4) unofficial transcript (official transcript will be needed prior to the start of the school)

Applications must be received by Feb. 11, 2011. Acceptance notifications will be sent by Feb. 25, 2011. If you have any questions, please contact Debbie Wilke by email or phone.