

# Iowa High Performance Computing (IHPC) Summer School

University of Iowa

We are pleased to announce the first annual **Iowa High Performance Computing (IHPC) Summer School**. Participation in this free summer school is open to any University of Iowa graduate student, with preference given to those planning to employ high performance computing as an element of their graduate research. Undergraduate students are welcome to apply and will be considered based on potential to benefit and space availability. Competency in scientific computer programming in a version of either Fortran or C is a prerequisite for this school, but familiarity with parallel programming is not required.

Members of the University of Iowa faculty will teach courses on:

- The Basics of Designing High Performance Computing Algorithms
- Parallelization using the Message Passing Interface (MPI) Libraries
- Optimization of Parallel Performance
- Management of a High Performance Computing Research Program

This two-day course will give students hands-on experience running parallel algorithms, both locally on a shared high performance computing cluster at the University of Iowa, and remotely on computers at a national supercomputing center. In addition to lectures and hands-on demonstrations, students will work together to complete a parallel programming homework assignment.

## IHPC Summer School

Thursday, August 6th and Friday, August 7th, 2009, 8:30am-5:30pm  
Information Technology Services - Research Services  
2523 UCC Training Room

To apply for this summer school, please visit

<http://its.uiowa.edu/training/>

to apply before the July 10, 2009 application deadline. Enrollment in this course is limited to 16 students, so applicants will be asked to provide a paragraph describing why the summer school training will be of direct benefit to their graduate research program.

