The Clinical and Translational Science Center (CTSC) is pleased to offer the following three workshops during the month of May:

- Introduction to Using a HPC Linux Cluster
- Introduction to Parallel Computing
- Using MATLAB on the TeraGrid

These workshops have been made possible through a new partnership with the Cornell University Center for Advanced Computing (CAC), and will be taught by CAC staff. The CTSC is a multi-institutional consortium led by Weill-Cornell Medical College, partnered with Memorial Sloan-Kettering Cancer Center, Hospital for Special Surgery, and Hunter College of the City University of New York.

There is no charge for the workshops, but seating is limited. Priority will be given to researchers, students and staff involved in research on the CTSC; however, all faculty and staff of the CTSC's partner institutions are encouraged to apply. Enrollment will be on a first come/first served basis.

Questions: Kenneth Lee, at kel2011@med.cornell.edu
Registration: http://www.cac.cornell.edu/education/register/ctsc.aspx
Location: Weill Cornell Medical College dept of POIS/ITS - 575 Lexington Avenue, 3rd Floor, New York, NY 10022

Intro to Using a HPC Linux Cluster

Date/Time: May 18, 2011, 1:00-3:00 PM

Workshop participants will learn how to use a cluster of Linux computers to run scientific applications. Topics and hands-on sessions will include:

- What is a cluster
- How to connect to a cluster using SSH and X-Windows
- How to work with files and directories at the command line
- How to use a scheduler to automate the running of scientific applications

Introduction to Parallel Computing

Date/Time: May 26, 2011, 10:00-Noon

After an overview of parallel computing, workshop participants will be introduced to OpenMP, with a hands-on lab. Topics include:

- Overview of parallel programming concepts
- Introduction to OpenMP

Prerequisites: Familiarity with C or Fortran

Using MATLAB on the TeraGrid

Date/Time: May 31, 2011, 1:00-3:00 PM

Workshop participants will learn how to install and use client software and the Parallel Computing Toolbox to launch MATLAB jobs from a local desktop and run them on the remote cluster at Cornell CAC in Ithaca. Topics will include:

- Overview of the experimental computing resource
- Installing client software
- Running MATLAB test codes on the remote resource

Prerequisites: Basic working knowledge of MATLAB and the Parallel Computing Toolbox (PCT). Participants will work on their own laptops, which must have MATLAB R2009B, R2010A, or R2010B and PCT installed.