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Beowulf Boot Camp for High School Students & Teachers

Beowulf Boot Camp for High School Students & Teachers

July 9-13, 2012

Louisiana State University

Energy, Coast and Environment Building Rotunda (Conference Center & Lobby)



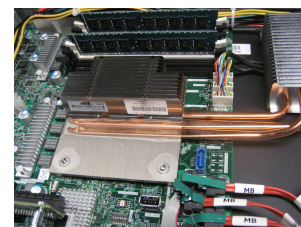
Registration Closed! [Click here](#) to visit the 2013 Beowulf Camp page.

The [LSU Center for Computation & Technology \(CCT\)](#) will host the fifth Beowulf Boot Camp July 9-13 on the LSU campus. This exciting summer education opportunity offers high school students and teachers a unique opportunity to work with advanced research technology not usually available in a typical classroom setting.

During Beowulf Boot Camp 2012, students will work hands-on with a number of LSU professors as they learn how to build and use supercomputers. Regular participants include: Dr. Thomas Sterling, a former NASA scientist who invented the Beowulf supercomputing cluster; Dr. Jim Chen who studies hurricanes, tsunamis, and coastal science; Dr. Brygg Ullmer, who's work in genetics has been featured in *Nature*; Dr. Peter Diener, who uses supercomputers to simulate colliding black holes; and Dr. Steven Brandt, a computational scientist in the CCT who specializes in programming.

Students will engage in the following activities:

- ▶ building a computer cluster from scratch
- ▶ installing the Linux operating system on the computer they've built
- ▶ connecting computers put together by their peers to make a mini-supercomputer
- ▶ learning how to program a mini-supercomputer in parallel with Python
- ▶ interactive activities to help understand how Parallel computing works in Supercomputing
- ▶ running performance benchmarks to determine how your cluster ranks in comparison with the fastest and largest supercomputers in the world.



WHO: Louisiana High School Students and Teachers

CCT will accept participants on a first-come, first-serve basis. This camp is introductory so students do not need a strong computational science background to participate.

Note to Teachers: The content of this workshop is eligible for up to 25 hours of CLUs (Continuing Learning Units). Participants must complete the entire course for the full 25 hours. With the certificate and the agenda from the workshop, participants should apply to their parish school board for CLU credits. An individual's school district gives final approval for awarding of CLUs.

For more information on the Beowulf Boot Camp and its curriculum, [click here for a sample itinerary](#).

REGISTRATION & COSTS: [Click here for registration form!\(pdf\) or \(doc\)](#)

This camp is free to qualified participants. CCT will provide workspace, parking accommodations and meals during the camp, but participants are responsible for arranging their own transportation to and from LSU's campus. The CCT can assist with dorm rooms at no cost to participants if needed for those outside of the Baton Rouge and surrounding areas. Please contact Karen Jones, LSU CCT, at 225-578-0595, or by e-mail: kjones@lsu.edu if you need to make these arrangements.



"Beowulf is now the building block of many of the world's supercomputers."

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