



# The Challenge is on!

Are you ready to throw it down? Build, tune, and race your high performance computational cluster to the finish at the **SC10 Student Cluster Competition.**

The **Student Cluster Competition (SCC)** showcases next-generation high-performance computing talent harnessing the incredible power of current-generation cluster hardware.

In this real-time challenge, teams of six undergraduate and/or high school students assemble a small cluster of their own design on the SC exhibit floor and race to correctly complete the greatest number of application runs.

**WITH A CATCH...** run real HPC workloads on the same power needed to run only 3 coffee makers!

Prior to the competition, teams work with their supervisor and vendor partners to design and build a cutting-edge commercially available small cluster that does not exceed the 26 amp power limit and learn the predetermined HPC applications.

During SC10, teams will compete to achieve the best HPCC benchmark performance and maximum throughput of accurate application runs, while staying at or below their energy budget. Teams will also compete to impress SC participants and judges with visualizations, presentations, and interviews.

In its 4th year, the Student Cluster Competition continues to be exciting, educational and a truly rewarding experience for students, supervisors, vendor partners, and SC participants.

SC Communities brings together programs designed to support emerging leaders and groups that have traditionally been under-represented in computing. We provide opportunities for students, faculty, early-career professionals, and international attendees to participate in the SC Conference through our Ambassadors, Broader Engagement, Education Program, Student Cluster Competition, and Student Volunteers activities. Limited travel support is available for some of these programs; we encourage you to apply. Please visit <http://sc10.supercomputing.org/communities/> for more information

## ...ON COFFEE POWER?



Surprisingly, not to fuel the students through the night, but to power their clusters! Teams will run real HPC workloads on the same power needed to keep 3 coffee makers percolating at the **SC10 Student Cluster Competition.**

For complete information or to apply for the **SC10 Student Cluster Competition**, go to <http://sc10.supercomputing.org/?pg=studentcluster.html>

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### Contact us at:

[student-cluster-challenge@info.supercomputing.org](mailto:student-cluster-challenge@info.supercomputing.org)

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### Applications Open:

**February 1, 2010**

**Submissions: <http://submissions.supercomputing.org/>**

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### Application Deadline:

**April 16, 2010**

### Sponsors:

**IEEE Computer Society  
ACM SIGARCH**

