

2015 International Summer School on HPC Challenges in Computational Sciences

Graduate students and postdoctoral scholars from institutions in Canada, Europe, Japan and the United States are invited to apply for the sixth International Summer School on HPC Challenges in Computational Sciences, to be held June 21-26, 2015, in Toronto, Canada.

Applications are due March 11, 2015. The summer school is sponsored by Compute/Calcul Canada, the Extreme Science and Engineering Discovery Environment (XSEDE) with funds from the U.S. National Science Foundation, the Partnership for Advanced Computing in Europe (PRACE) and the RIKEN Advanced Institute for Computational Science (RIKEN AICS) in Japan.

Leading American, European and Japanese computational scientists and HPC technologists will offer instruction on a variety of topics, including:

- HPC challenges by discipline (e.g., earth, life and materials sciences, physics)
- HPC programming proficiencies
- Performance analysis & profiling
- Algorithmic approaches & numerical libraries
- Data-intensive computing
- Scientific visualization
- Canadian, EU, Japanese and U.S. HPC-infrastructures

The expense-paid program will benefit advanced scholars from Canadian, European, Japanese and U.S. institutions who use HPC to conduct research. Interested students should apply by March 11, 2015. Meals, housing, and travel will be covered for the selected participants. Applications from graduate students and postdocs in all science and engineering fields are welcome. Preference will be given to applicants with parallel programming experience, and a research plan that will benefit from the utilization of high performance computing systems.

Further information and application:

<https://ihpcss2015.computecanada.ca>

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About Compute Canada / Calcul Canada:

Compute Canada / Calcul Canada (CC) provides Canadian researchers with a national platform for advanced computing. Working with research institutions and regional organizations across the country, CC provides a wide range of computing and data resources, services, and expertise to advance scientific knowledge and innovation across multiple disciplines and sectors. For more information, see www.computecanada.ca

About PRACE:

The Partnership for Advanced Computing in Europe (PRACE) is an international non-profit association with its seat in Brussels. The PRACE Research Infrastructure provides a persistent world-class high performance computing service for scientists and researchers from academia and industry in Europe. The computer systems and their operations accessible through PRACE are provided by 4 PRACE members (BSC representing Spain, CINECA representing Italy, GCS representing Germany and GENCI representing France). The Implementation Phase of PRACE receives funding from the EU's Seventh Framework Programme (FP7/2007-2013) under grant agreement RI-312763. For more information, see www.prace-ri.eu

About RIKEN AICS:

RIKEN is one of Japan's largest research organizations with institutes and centers in locations throughout Japan. The Advanced Institute for Computational Science (AICS) strives to create an international center of excellence dedicated to generating world-leading results through the use of its world-class supercomputer "K computer." It serves as the core of the "innovative high-performance computer infrastructure" project promoted by the Ministry of Education, Culture, Sports, Science and Technology. <http://www.aics.riken.jp/en/>

About XSEDE:

The Extreme Science and Engineering Discovery Environment (XSEDE) is the most advanced, powerful, and robust collection of integrated digital resources and services in the world. It is a single virtual system that scientists can use to interactively share computing resources, data, and expertise. XSEDE accelerates scientific discovery by enhancing the productivity of researchers, engineers, and scholars by deepening and extending the use of XSEDE's ecosystem of advanced digital services and by advancing and sustaining the XSEDE advanced digital infrastructure. XSEDE is a five-year, \$121-million project and is supported by the National Science Foundation. For more information, see www.xsede.org.