Workshop on

High Performance Scientific Computing

June 06-10, 2016

Application Deadline: May 10, 2016

IISER THIRUVANANTHAPURAM

Centre for Computation, Modelling and Simulation (CCMS)

http://ccms.iisertvm.ac.in/

Indian Institute of Science Education and Research Thiruvananthapuram

CET Campus, Trivandrum - 695016, Kerala, India

http://www.iisertvm.ac.in/

The Workshop

High Performance Computing (HPC) in scientific research has become increasingly important. The workshop aims to introduce and attract young and talented students from all the disciplines of basic sciences to HPC and its applications to scientific computing.

Who can apply

Master/Doctoral students and Postdocs from all disciplines of basic sciences working in areas involving numerical computation can apply. Applicants should have basic knowledge of programming and familiarity with Linux platform.

Registration

To register for the workshop, send an email with your **detailed CV** to ccms@iisertvm.ac.in with the subject line "Registration for the HPSC workshop", **on or before May 10, 2016**. Shortlisted applicants will be informed via email by May 15, 2016.

There is no registration fee and local hospitality will be provided to all the participants.

About CCMS

The CCMS is a multidisciplinary research centre based on High Performance Computing established in 2014 at IISER Thiruvananthapuram under the MHRD scheme of centre for training and research in frontier areas of science and technology.

Organizing committee:

Amal Medhi, Anil Shaji, Archana Pai, Arun K R, Nishant K T, S Shankaranarayanan, R S Swathi

(CCMS, IISER Thiruvananthapuram, CET Campus, Trivandrum-695016, Kerala)

Topics on Programming & HPC:

- Linux & HPC cluster Environment
- Parallel Programming (OpenMP & MPI)
- C++/Python for Scientific Computing

Topics on HPC Applications:

- **Bioinformatics**
  Next Generation Sequencing Data Analysis
- **Quantum Chemistry**
  Electronic Structure Methods - Theory & Computation
- **Computational Mathematics**
  Simulation of population balance equations and finite element methods
- **Computational Physics**
  Density Functional Theory, Quantum Monte Carlo

Speakers:

- **Vinod Scaria**
  CSIR-IGIB, New Delhi
- **D L V K Prasad**
  IIT Kanpur
- **Raghavan B Sunoj**
  IIT Bombay
- **Ankik Kumar Giri**
  IIT Roorkee
- **Sarvesh Kumar**
  IIST Thiruvananthapuram
- **Munima B Sahariah**
  IASST Guwahati
- **R S Swathi**
  IISER Thiruvananthapuram
- **Amal Medhi**
  IISER Thiruvananthapuram
- **Arun K R**
  IISER Thiruvananthapuram
- **Calligo Technologies Bangalore**