

SPARK

Student Programme for Advancement in Research Knowledge

Opportunity to carryout research/thesis work in CSIR-4PI



CSIR FOURTH PARADIGM INSTITUTE

Unravel the mysteries of the Planet Earth, address the current generation Cyber Threats and look at the Suspended Particles in a medium through the modelling & simulation

Apply Online

url: www.csir4pi.in/spark
E-mail: spark@csir4pi.in

Join us to enter the world of Computational Science

- CSIR C-MMACS established in 1988 under Council of Scientific & Industrial Research (CSIR)
- The primary focus of the centre is Modelling and Simulation of Complex Systems
- The Centre has a state-of-the-art Supercomputer and Networking facility with high-speed connectivity to both the Internet and National Knowledge Network
- Total peak compute power of 360 TFLOPS; One Supercomputer ranked 4th in the top super-computers list in the country; The largest shared memory system in India

Highlights of the Programme

- Remote access and guidance to CSIR-4PI computing facility
- Opportunity to work on complex and live problems
- Best thesis award based on students performance

Eligibility

- Open to all students who have formally enrolled for higher degrees, like BE/B.Tech/ME/M.Tech/M.Sc/MCA/Ph.D etc. carrying out their major thesis work
- Students seeking summer internship/training can also apply

Research Foci

- * Carbon footprint of India
- * Computational nano-mechanics
- * Cryptography and secure communication
- * Cyber security and ethical hacking
- * Earthquake hazard assessment
- * Finite element modelling
- * Multiphase flow simulation
- * Modelling of Indian Monsoon
- * Multiple time and spatial scale phenomena (e.g. aerosol-cloud interaction)
- * Numerical algorithms
- * Optimization and visualization
- * Ocean eco system modelling
- * Parallel programming for supercomputers

