

SRISHTI RESEARCH GROUP

COMPUTER SCIENCE & ENGG, IIT DELHI

<http://www.cse.iitd.ac.in/~srsarangi/openings.html>

Project Position

Topic: Study of lateral heat conduction in multicores

POST

Senior Research Fellow

QUALIFICATION

- M.Tech in Computer Science or Electronics, preferably with a good GATE or UGC-Net score, and grades.
- Outstanding B.Tech students can also apply.
- Skills Required: Knowledge of basic computer architecture and VLSI design

JOB DESCRIPTION

The project aims to study the effect of lateral heat conduction in modern multiprocessors. The candidate is expected to write code in R to simulate the effect of heat transfer across cores, and characterize their behavior. Subsequently, he or she will work on different schemes in hardware or software to mitigate the effects of lateral heat transfer especially in the areas of leakage power dissipation and reliability. This work involves writing novel algorithms in architecture simulators, proposing new protocols, and evaluating the proposed methods. He or she is expected to actively contribute in writing research papers. There is a possibility of obtaining an advanced degree like an M.S or Ph.D. However, please note that these programs have an independent and separate admission process with their own shortlisting criteria.

COMPENSATION

- Rs. 21,000 p.m. + 30% HRA (if applicable)
- All other benefits that are given to project employees as per IIT rules.

These are only approximate figures. The final amount will be decided after the formal sanction letter is received.

CONTACT

PRINCIPAL INVESTIGATOR

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