

Post-Doctoral and Research Fellow Positions for Huawei Funded Research Project

Applications are invited for the following 2 positions for a Huawei R&D India funded research project on *Exploring Application Driven NVM/PMEM Architectures*.

- A. **Post-Doctoral Fellow** (PDF)
- B. **Research Fellow** (RF)

The personnel hired for this project will work on exploring next generation memory and storage architectures using non-volatile memories like Phase Change Memory, Spin-Torque Transfer Memory, etc. They will explore the application driven uses for these emerging memory technologies at the level of main memory and beyond for a wide variety of application domains.

Responsibilities

The personnel will be responsible for designing and running experiments, collecting and analyzing data, designing systems, writing code, papers and reports and liaising with industrial partners. Postdoctoral fellows will also have opportunities to mentor students, and gain teaching experience.

Requirements

- Post-doctoral fellow should have a PhD in hand.
- Research fellow should have completed a B.Tech (or an equivalent 4 year degree)/M.Tech/MS in Computer Science, IT, or another relevant field with experience in computer architecture and computer system design.

Desired Skill Sets

- The post-doctoral researcher is expected to have carried out dissertation research in Computer Architecture, Operating Systems, Distributed Systems or topics related to managing large scale data and is expected to have published independent research in these areas.
- The common skill sets include, but are not limited to:
 - Experience with workload characterization and benchmarking
 - In depth understanding of computer architecture and operating systems.
 - Experience with system level performance measurement tools (perf, oprofile, eBPF etc.), binary instrumentation tools (e.g., PIN) and architectural simulators is a big plus.
 - Excellent coding/scripting skills in C/C++/Python
 - Experience with writing technical reports and papers.

Duration of Appointment

All positions will be made for a period of one year with potential for renewal.

Remuneration

Competitive for skill and experience level, numbers presented are representative. Postdoc: INR ~9lakhs / year;
Research Fellow: INR ~6lakhs / year

Application Process

- Last date for sending complete applications is **31st January 2021**.
- Prepare complete CV and a one-page cover letter describing 1) how are you best suited for the position, and 2) how working in this position aligns with your larger career goals. Note: All files should be PDF.
- For postdoc application, attach PDF of your best (as judged by you) publication.
- Upload application materials at this URL: <https://forms.gle/gepCsJkbuGHnT9c8>
- For questions, contact Prof. Manu Awasthi at manu.awasthi@ashoka.edu.in