



معهد قطر لبحوث الحوسبة
Qatar Computing Research Institute

عضو في مؤسسة قطر
Member of Qatar Foundation

Software Engineer- CS&E

Qatar Computing Research Institute (QCRI) is seeking candidates for Software Engineer to work within the Computational Science and Engineering (CS&E) team. The CS&E group at the Qatar Computing Research Institute (QCRI) is engaged in forward-looking research aimed at developing the computing, communications, and storage infrastructures needed to solve the traditional large-scale scientific (biology, physics, chemistry, etc.) and engineering (automotive, transportation, energy, etc.) simulations as well as the emerging big data applications in social computing and data analytics. This comprehensive vision of CS&E is unique in that it extends the conventional compute-centric definition of high-performance computing (HPC) to new applications that are characterized by more diverse, less-structured, and possibly continuously-streamed data. A primary goal of the group is to research new software algorithms and hardware architectures that are more suitable for such applications and that can complement the classical supercomputers that were optimized for vector processing. Candidates for positions in this group should have a strong background in traditional HPC as well as in the new paradigms of cloud and distributed computing.

Job Description:

- Software Engineers are expected to work in research teams, where they design, implement, and maintain software that is part of the research conducted by the team. Software Engineers may also be responsible for maintaining research infrastructure and running user-facing software services. They are expected to collaborate with researchers in developing research ideas and intellectual property in the form of disclosures and patent applications.
- Software Engineers are expected to contribute towards the research efforts of QCRI and to develop the necessary expertise to tackle the challenges of interest.

Requirements:

- BSc in computer science or a related field from a top-tier institution.
- MSc or PhD a plus.
- Strong record of major accomplishments.
- Strong communication and collaboration skills.
- Required technical skills:
 - Strong programming skills in C/C++ or Java.
 - Fluency in Java and at least one scripting language (e.g., Perl, PHP, Ruby or Python).
 - Expertise in Linux programming and administration.
 - Systems-level programming experience.
- Desirable technical skills:
 - Distributed systems experience.
 - High Performance Computing applications or infrastructure.
 - Experience with cloud technologies such as Amazon Web Services or OpenStack.
 - Experience with big data platforms like Hadoop and parallel systems is a plus.

Research at QCRI:

[QCRI](http://www.qcri.qa) supports Qatar Foundation's mission by helping to build Qatar's innovation and technology capacity. It is focused on tackling large-scale computing challenges that address national priorities for growth and development. Moreover, QCRI is a national research institute conducting world-class applied computing research that transforms the way we interact with each other, enables new discoveries, and accelerates development of society.

A proud member of [Qatar Foundation for Education, Science and Community Development](#), QCRI is building a multidisciplinary research group in computer science with passion for innovation and excellence in research. The QCRI research program offers a collaborative, multidisciplinary team environment, endowed with a comprehensive support infrastructure.

Research in Qatar:

Qatar has made a commitment to be a leading center for research and development excellence and innovation. Home to a globally regarded scientific research funding organization, a world-class hub for technology innovation and commercialization, and prominent research institutes operating at the frontiers of science, Qatar Foundation Research and Development is spearheading a national endeavor to fulfill this commitment.

The country is home to branch campuses of numerous world-renowned universities such as Carnegie Mellon University, Texas A&M University and Georgetown University, major oil and gas companies, telecommunication companies, and international media organizations such as Al Jazeera. These local institutions offer opportunities for research collaboration to tackle new computing research challenges of practical importance.

Package:

QCRI offers a unique opportunity for strong research careers and a highly competitive compensation package including attractive tax-free salary and additional benefits such as furnished accommodation, excellent medical insurance, annual paid leave, and more.

To apply, please [click here](#) and select “Software Engineer– CS&E.”

