



معهد قطر لبحوث الحوسبة
Qatar Computing Research Institute

عضو في مؤسسة قطر
Member of Qatar Foundation

Software Engineer- Cyber Security

Qatar Computing Research Institute (QCRI) is seeking candidates for Software Engineer to work within the [Cyber Security](#) team. The Cyber Security group at QCRI is currently focusing on four research areas: (i) Advanced Persistent threats, (ii) Uncovering Resident Malware (static and Dynamic Malware analysis), (iii) ICS/SCADA security, and (iv) Mobile and Cloud Computing security.

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.
- Skills
 - Excellent problem solving, analytical, and critical thinking skills
 - Strong coding skills with emphasis on modular, scalable, secure coding
 - Experience with using open source projects with little or no documentation
 - Good collaborative development skills
 - Excellent documentation skills
 - Excellent verbal communication skills
 - Adaptive and quick learner of new technologies
 - Capable of architecting complex, large-scale, secure, and scalable software (*desirable*)
 - Experience with large-scale systems (*desirable*)
 - Experience with low level system components (firmware, drivers, OS internals, etc.) (*desirable*)
 - Experience with contributing to open source software communities (*desirable*)
- Technologies
 - Programming (x86 and ARM ASM, C/C++, Obj-C, Lisp)
 - Scripting (Bash, Python, Javascript, Lua, Powershell)
 - Databases (NoSQL, NewSQL, SQL)
 - Distributed computing (OpenStack, Hadoop, Pig, Elastic-search, Cassandra, Solr)
 - Data fusion (Google Fusion Tables, pyfusion)
 - Machine learning (scikit-learn, MLPACK, Weka, R)
 - Visualization (Kibana)
 - Web APIs (Google Maps, Analytics, Prediction, etc.)

Research at QCRI:

[QCRI](#) 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– Cyber Security.”

