

Aakash Ahmad

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Schaffhausen Institute of Technology (SIT), Switzerland.

April 28, 2022

Application for Postdoctoral Researcher In Software Engineering for Quantum Computing

I would like to apply for the position of Postdoctoral Researcher In Software Engineering for Quantum Computing at SIT, Switzerland. As a researcher, practitioner, and tutor of computing and software systems, my expertise are in the area of software engineering applied to service-driven and pervasive computing. Recently I have started to investigate the role of software architecture in design and development of quantum computing systems. I have worked on funded research projects to develop solutions and to disseminate the results through research publications, presentations, and lecturing.

Research Interests - My research interests are in the area of software engineering and its application to service computing and pervasive systems (mobile and internet of things). I have published my research at software engineering focused journals and conferences (e.g., ICSE¹, TSE², TCC³, EASE⁴ PMC⁵, SEAMS⁶). I have been awarded with a funding of 49400 US dollars for research on architecting software for quantum computing systems. The research outputs (currently under review), rooted in empirical software engineering, propose a process along with tool-chain and identifies human roles in engineerig and architecting quantum software. To adress some challanges related to the ongoing pandemic, I guest edited a special issue on IoTs for Fighting COVID-19, published by Pervasive and Mobile Computing, 2021.

Teaching Experience - I have taught a number of software engineering and computer science related courses both at the undergraduate and post-graduate level at various institutes of higher education. I have been involved with design, development, and delivery of academic courses along with co-supervision of Master's thesis. Along with the cover letter, find attached my:

- Curriculum Vitae.
- Link to my research profile

Thank you for considering my application. If you need any further information or documentation in this regard, feel free to let me know.

With kind regards,
Aakash Ahmad

¹IEEE/ACM International Conference on Software Engineering: Software Engineering in Practice (ICSE-SEIP)

²IEEE Transactions on Software Engineering

³IEEE Transactions on Cloud Computing

⁴International Conference on Evaluation and Assessment in Software Engineering

⁵Pervasive and Mobile Computing

⁶Symposium on Software Engineering for Adaptive and Self-Managing Systems