

Mukesh Tiwari
Cambridge, United Kingdom
☎ +447824648138
✉ mt883@cam.ac.uk

To
Andy Tripathi,
Deputy Chief Information Officer, Canberra

Application for the Director, Cyber Security

Dear Andy Tripathi,

I am writing to apply for the **Director, Cyber Security** job. I have extensive research and practical experience in cyber security, theorem proving (Coq theorem prover), (election) software security, cryptography, and social choice theory. My PhD goal was to develop an unhackable electronic vote-counting software by using mathematical logic. In the process, I understood the security requirement of the vote-counting software and then came up with a threat model under which it could be operated. In addition, my research is highly relevant to a democracy, e.g., Canberra that conducts an election using software programs. I have developed many mathematically proven correct (unhackable) solutions that address the problems, pointed by researchers, of e-voting software programs, e.g., I have developed a mathematically proven correct software for Swiss elections, including the threat model. I have a PhD from the Australian National University, Canberra, Australia, and currently, I am working as a senior Research Fellow at the University of Cambridge. Before moving to Cambridge, I was a research fellow at the University of Melbourne, Australia.

In addition to my advanced degree, I also have 3 years of experience in the field of information security and risk management as a contractor for government of India. My role was to understand and assess the cyber risks and come with a potential solution and countermeasures, in conjunction with other domain experts, to mitigate them. As a holder of a PhD in cyber security, I have a strong foundation in software security and threat modelling, which I believe would make me a valuable asset for this position.

I am excited about the opportunity to join ACT government and use my skills and expertise to protect the business from cyber threats. Thank you for considering my application. I look forward to discussing the **Director, Cyber Security** role further and how I can contribute to the success of your team. Please let me know if you have any questions.

Your Sincerely,

Mukesh Tiwari