**Quantum Computers Threaten Our Ecosystems**

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The projected influx of quantum computers—an estimated addressable market of $902.48 billion by 2040[[1]](#footnote-1)—threatens to destabilize the security protocols of essential technology-enabled ecosystems worldwide, such as: mobile phones, internet, social networks, cloud computing, and much more. Effectively, by exploiting a distinctive quantum mechanics phenomenon enabled by the coherent control of dual-state quantum systems, i.e. quantum entanglement, quantum computers can break the asymmetric cryptography protocol (i.e. public-key cryptography) regularly used to encrypt data. Consequently, the lack of cryptographic standards able to secure our vital ecosystems from quantum computers is a grave concern. Register today for our **9/1 Post-Quantum Cryptography Webinar** as security experts from our Quantum Working Group discuss this pressing security issue.

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1. *Growing Australia’s Quantum Technology Industry*. 2020. Commonwealth Scientific and Industrial Research Organization. National Science Agency. <https://www.csiro.au/~/media/News-releases/2020/Quantum/CSIRO-Growing-Australias-Quantum-Industry--pre-release--EMBARGOED-until-22-May-2020.pdf?la=en&hash=CE64FCF8066D7D201DEA5AD0101E5F8BE9D53297>. [↑](#footnote-ref-1)