

Suggested background readings and materials

Quantum computing

IBM Think Academy: How It Works: Quantum Computing (short video):

<https://www.youtube.com/watch?v=WVv5OAR4Nik>

The WIRED Guide to Quantum Computing: <https://www.wired.com/story/wired-guide-to-quantum-computing/>

“Quantum computing and defense” in IISS, *The Military Balance 2019*:

<https://www.iiss.org/publications/the-military-balance/the-military-balance-2019/quantum-computing-and-defence>

Quantum Computing Is the Next Big Security Risk: <https://www.wired.com/story/quantum-computing-is-the-next-big-security-risk/>

Inside the High-Stakes Race to Make Quantum Computers Work:

<https://www.wired.com/story/inside-the-high-stakes-race-to-make-quantum-computers-work/>

Internet of Things

IBM Think Academy: How It Works: Internet of Things (short video):

<https://www.youtube.com/watch?v=QSIPNhOiMoE&t=24s>

What is the Internet of Things? WIRED explains: <https://www.wired.co.uk/article/internet-of-things-what-is-explained-iot>

Leveraging the Internet of Things for a More Efficient and Effective Military: https://csis-prod.s3.amazonaws.com/s3fs-public/legacy_files/files/publication/150915_Zheng_LeveragingInternet_WEB.pdf

Smart City Tech Would Make Military Bases Safer: <https://www.wired.com/2017/02/smart-city-tech-make-military-bases-safer/>

Internet of Things Meets the Military and Battlefield: Connecting Gear and Biometric Wearables for an IoMT and IoBT: <https://www.computer.org/publications/tech-news/research/internet-of-military-battlefield-things-iomt-iobt>

Click Here to Kill Everyone: With the Internet of Things, We’re Building a World-size Robot. How are We Going to Control It? <http://nymag.com/intelligencer/2017/01/the-internet-of-things-dangerous-future-bruce-schneier.html>

Distributed ledger technology

Centre for International Governance Innovations: What is BLOCKCHAIN? (short video):

<https://www.youtube.com/watch?v=3xGLc-zz9cA>

The WIRED Guide to Blockchain: <https://www.wired.com/story/guide-blockchain/>

The Differences between Blockchain & Distributed Ledger Technology:
<https://medium.com/@markusandersson/the-difference-between-blockchains-distributed-ledger-technology-a0fe4ba3d316>

Better Than a Floppy—The Potential of Distributed Ledger Technology for Nuclear Safeguards Information Management: <https://www.stimson.org/programs/blockchain-international-security>

Why Military Blockchain is Critical in the Age of Cyber Warfare:
<https://media.consensys.net/why-military-blockchain-is-critical-in-the-age-of-cyber-warfare-93bea0be7619>

How the Blockchain is Redefining Trust: <https://www.wired.com/story/how-the-blockchain-is-redefining-trust/>

Blockchains in National Defense: Trustworthy Systems in a Trustless World:
https://www.jcs.mil/Portals/36/Documents/Doctrine/Education/jpme_papers/barnas_n.pdf?ver=2017-12-29-142140-393

The Role of Disruptive Technologies in International Security Affairs: Making a Case for the Use of Blockchain Tech to Cope with Illicit Arms Trade: <https://iiu.fgv.br/papers/role-disruptive-technologies-international-security-affairs-making-case-use-blockchain-tech>

Once Hailed as Unhackable, Blockchains are Now Getting Hacked:
<https://www.technologyreview.com/s/612974/once-hailed-as-unhackable-blockchains-are-now-getting-hacked/>

Other readings on international security and scientific and technological innovations

UC Berkeley's Centre for Long-Term Cybersecurity "Futures" Scenarios:
<https://cltc.berkeley.edu/scenarios2025/>

Defence Future Technologies: What We See on the Horizon: https://deftech.ch/wp-content/uploads/2018/07/armasuisseWT_Defence-Future-Technologies-What-We-See-On-The-Horizon-2017_HD.pdf

Trust Mechanisms and Online Platforms: A Regulatory Response:
https://www.hks.harvard.edu/sites/default/files/centers/mrcbg/files/97_final.pdf