



Commission on Science and Technology for Development

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Resolution 69420 (2025) on the topic of Establishing Ethical Guidelines and Regulatory Frameworks for International Quantum Technology Development

Sponsors: *People's Republic of China, French Republic, Federal Republic of Germany,*

Signatories: *The Commonwealth of Australia, Canada, People's Republic of China, Republic of Germany, The State of Israel, The Republic of Indonesia, Japan, United Mexican States, The Kingdom of Saudi Arabia, The Republic of Singapore, The Republic of Türkiye, the United Arab Emirates, The United Kingdom of Great Britain and Northern Ireland, The United States of America*

**Adopted by the Commission on Science and Technology for Development at its meeting
on 03/10/2025**

Alarmed by the rising threat coming from rapid quantum technology development,

Noting the risks of unsupervised quantum technology development spiraling out of control and causing unwanted conflicts,

Condemning the use of quantum technology for offensive military operations against other nations, where human life is put at risk,

Concerned by the widening technological gap between nations in the field of quantum research,

Alarmed by the lack of regulations for the usage and development of quantum technologies,

Acknowledging the ethical, legal, and security challenges these technologies pose to mankind,

Noting further the increasing global proliferation of quantum technologies and their potential for commercial and military applications,

Guided by the wish for the usage of such technologies for the betterment of living standards globally,

1. *Recommends* establishing the Global Quantum Technology Organization (GQTO), which:
 - a. allows trade of critical resources between interested countries, such as:
 - i. coolant,
 - ii. superconductors,
 - iii. laser-cut patterned, micrometer-thin diamond membranes;
 - b. encourages collaborative research by organizing an international gathering for scientific development, which includes:
 - i. monthly lectures on quantum technology provided by scientists grouped in GQTO in rotating locations,
 - ii. campaigns spreading awareness on the topic among citizens and in schools;
 - c. is to create a fund with a budget of 40 billion dollars to:
 - i. fund gigafactories in China and the United States of America,
 - ii. sponsor research campaigns in public sector,
 - iii. fund educational campaigns; such as student exchanges,
 - iv. finance quantum physics faculties in universities;
2. *Affirms* establishing the Quantum Supervision Organization (QSO) working together with GQTO which:
 - a. is present in every country working with GQTO to:

- i. ensure quantum technology is not used unethically,
 - ii. monitor the impact of this technology on economic, societal, and security-related factors,
 - iii. promote proper implementation of post-quantum cryptography;
 - b. promotes ethical and responsible use of quantum information, science, and technology by:
 - i. creating a program which raises awareness about the risks involved in quantum technology development,
 - ii. the program will be implemented in every country in which GQTO is predicted to work;
- 3. *Advises* governments to strictly monitor private companies which deal with quantum technologies to prevent misuse and ensure personal safety by:
 - a. guaranteeing technological robustness through standards and certification:
 - i. stay pursuant to the existing principles and the rule of law,
 - ii. create mandatory certification programs for companies wishing to engage in quantum research and development;
 - b. contributing to fairness and transparency by:
 - i. creating protocols that have to be followed by companies,
 - ii. introducing annual checkups to ensure insight;
- 4. *Confirms* that the use of quantum technology against other countries is unadvised by international agreement:
 - a. accepting its usage for defense and national safety,
 - b. putting on consequences for using Quantum Technologies for military purposes against other countries in an offensive war, such as:
 - i. funding from GQTO will be ceased,

- ii. imposing sanctions on countries;
- 5. *Requests* quantum cryptography practices be standardized by coordinated efforts between NIST and ICCS following the principles of French projects:
 - a. HYPERFORM,
 - b. RESQUE,
 - c. μ PQRS,
 - d. X7PQC;
- 6. *Recommends* further development of quantum technology by GQTO members to improve in specific areas such as:
 - a. information technology:
 - i. creating increasingly powerful quantum computers,
 - ii. creating new algorithms that can be executed by quantum computers,
 - iii. improving AI with the use of quantum computers;
 - b. medical technology development for human life rescue:
 - i. developing biotechnology for more advanced treatment therapies,
 - ii. faster drug discovery in order to be able to run multiple and complex simulations on quantum computers,
 - iii. using quantum computers for protein folding simulations,
 - iv. improving both speed and accuracy of MRI and CT scans;
 - c. community outreach programs:
 - i. discovering new applications for quantum technology in everyday life,
 - ii. creating new job places in the quantum technology industry,
 - iii. promoting the creation of courses for programming of quantum computers in universities;

7. *Remains* actively seized of the matter.