

## S 1161

### Quantum Network Infrastructure and Workforce Development Act of 2021

**Congress:** 117 (2021–2023, Ended)

**Chamber:** Senate

**Policy Area:** Science, Technology, Communications

**Introduced:** Apr 15, 2021

**Current Status:** Read twice and referred to the Committee on Commerce, Science, and Transportation. (text: CR S1985-1

**Latest Action:** Read twice and referred to the Committee on Commerce, Science, and Transportation. (text: CR S1985-1987) (Apr 15, 2021)

**Official Text:** <https://www.congress.gov/bill/117th-congress/senate-bill/1161>

#### Sponsor

**Name:** Sen. Thune, John [R-SD]

**Party:** Republican • **State:** SD • **Chamber:** Senate

#### Cosponsors (1 total)

Cosponsor	Party / State	Role	Date Joined
Sen. Hassan, Margaret Wood [D-NH]	D · NH		Apr 15, 2021

#### Committee Activity

Committee	Chamber	Activity	Date
Commerce, Science, and Transportation Committee	Senate	Referred To	Apr 15, 2021

#### Subjects & Policy Tags

##### Policy Area:

Science, Technology, Communications

#### Related Bills

Bill	Relationship	Last Action
117 S 1260	Related bill	Jun 8, 2021: Passed Senate, under the order of 5/28/21, having achieved 60 votes in the affirmative, with an amendment by Yea-Nay Vote. 68 - 32. Record Vote Number: 226. (text: CR S4049-4499)

## **Quantum Network Infrastructure and Workforce Development Act of 2021**

This bill supports research in quantum networking and communications.

The Quantum Networking Working Group within the Subcommittee on Quantum Information Science of the National Science and Technology Council shall submit to Congress a report that has a plan for the advancement of quantum networking and communications technology in the United States.

The National Institute of Standards and Technology shall carry out research to facilitate the development and standardization of quantum networking and communications technologies and applications.

The Department of Energy shall supplement the Energy Sciences Network User Facility with dedicated quantum network infrastructure to advance development of quantum networking and communications technology.

The National Science Foundation (NSF) shall enter into an agreement with the National Academies of Sciences, Engineering, and Medicine to study ways of supporting the next generation of quantum leaders.

The NSF shall prioritize the better integration of quantum information science and engineering into the science, technology, engineering, and mathematics (STEM) curriculum for each grade level from kindergarten through grade 12.

The NSF shall carry out the Next Generation Quantum Leaders Pilot Program to provide funding for the education and training of the next generation of students in the fundamental principles of quantum mechanics.

### **Actions Timeline**

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