
42 U.S. Code § 1862s-7

Computer science education research

(a) Findings

Congress finds that as the lead Federal agency for building the research knowledge base for computer science education, the Foundation is well positioned to make investments that will accelerate ongoing efforts to enable rigorous and engaging computer science throughout the Nation as an integral part of STEM education.

(b) Grant program

(1) In general

The Director of the Foundation shall award grants to eligible entities to research computer science and cybersecurity education and computational thinking.

(2) Research

The research described in paragraph (1) may include the development or adaptation, piloting or full implementation, and testing of—

- (A) models of preservice preparation for teachers who will teach computer science and computational thinking;
- (B) scalable and sustainable models of professional development and ongoing support for the teachers described in subparagraph (A);
- (C) tools and models for teaching and learning aimed at supporting student success and inclusion in computing within and across diverse populations, particularly poor, rural, and tribal populations and other populations that have been historically underrepresented in computer science and STEM fields;
- (D) high-quality learning opportunities for teaching computer science and, especially in poor, rural, or tribal schools at the elementary school and middle school levels, for integrating computational thinking into STEM teaching and learning; and
- (E) tools and models for the integration of cybersecurity and other interdisciplinary efforts into computer science education and computational thinking at secondary and postsecondary levels of education.

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