

(e) STEM defined

In this section, the term “STEM” means the academic and professional disciplines of science, technology, engineering, and mathematics.

(Pub. L. 110–69, title IV, §4002, Aug. 9, 2007, 121 Stat. 600; Pub. L. 111–358, title III, §302, Jan. 4, 2011, 124 Stat. 3997.)

AMENDMENTS

2011—Subsec. (a). Pub. L. 111–358, §302(1), substituted “agency, with consideration given to the goal of promoting the participation of individuals from under-represented groups in STEM fields and in promoting the acquisition and retention of highly qualified and motivated young scientists to complement and supplement workforce needs.” for “the agency.”

Subsec. (b). Pub. L. 111–358, §302(3), added subsec. (b). Former subsec. (b) redesignated (c).

Subsec. (c). Pub. L. 111–358, §302(4), substituted “maintain” for “develop”.

Pub. L. 111–358, §302(2), redesignated subsec. (b) as (c). Former subsec. (c) redesignated (d).

Subsec. (d). Pub. L. 111–358, §302(2), redesignated subsec. (c) as (d).

Subsec. (e). Pub. L. 111–358, §302(5), added subsec. (e).

§ 893b. NOAA’s contribution to innovation**(a) Participation in interagency activities**

The National Oceanic and Atmospheric Administration shall be a full participant in any interagency effort to promote innovation and economic competitiveness through near-term and long-term basic scientific research and development and the promotion of science, technology, engineering, and mathematics education, consistent with the agency mission, including authorized activities.

(b) Historic foundation

In order to carry out the participation described in subsection (a), the Administrator of the National Oceanic and Atmospheric Administration shall build on the historic role of the National Oceanic and Atmospheric Administration in stimulating excellence in the advancement of ocean and atmospheric science and engineering disciplines and in providing opportunities and incentives for the pursuit of academic studies in science, technology, engineering, and mathematics.

(Pub. L. 110–69, title IV, §4003, Aug. 9, 2007, 121 Stat. 600.)

§ 893c. Workforce study**(a) In general**

The Secretary of Commerce, in cooperation with the Secretary of Education, shall request the National Academy of Sciences to conduct a study on the scientific workforce in the areas of oceanic and atmospheric research and development. The study shall investigate—

(1) whether there is a shortage in the number of individuals with advanced degrees in oceanic and atmospheric sciences who have the ability to conduct high quality scientific research in physical and chemical oceanography, meteorology, and atmospheric modeling, and related fields, for government, non-profit, and private sector entities;

(2) what Federal programs are available to help facilitate the education of students hoping to pursue these degrees;

(3) barriers to transitioning highly qualified oceanic and atmospheric scientists into Federal civil service scientist career tracks;

(4) what institutions of higher education, the private sector, and the Congress could do to increase the number of individuals with such post baccalaureate degrees;

(5) the impact of an aging Federal scientist workforce on the ability of Federal agencies to conduct high quality scientific research; and

(6) what actions the Federal government can take to assist the transition of highly qualified scientists into Federal career scientist positions and ensure that the experiences of retiring Federal scientists are adequately documented and transferred prior to retirement from Federal service.

(b) Coordination

The Secretary of Commerce and the Secretary of Education shall consult with the heads of other Federal agencies and departments with oceanic and atmospheric expertise or authority in preparing the specifications for the study.

(c) Report

No later than 18 months after January 4, 2011, the Secretary of Commerce and the Secretary of Education shall transmit a joint report to each committee of Congress with jurisdiction over the programs described in section 893a(b) of this title, as amended by section 302 of this Act, detailing the findings and recommendations of the study and setting forth a prioritized plan to implement the recommendations.

(d) Program and plan

The Administrator of the National Oceanic and Atmospheric Administration shall evaluate the National Academy of Sciences study and develop a workforce program and plan to institutionalize the Administration’s Federal science career pathways and address aging workforce issues. The program and plan shall be developed in consultation with the Administration’s cooperative institutes and other academic partners to identify and implement programs and mechanisms to ensure that—

(1) sufficient highly qualified scientists are able to transition into Federal career scientist positions in the Administration’s laboratories and programs; and

(2) the technical and management experiences of senior employees are documented and transferred before leaving Federal service.

(Pub. L. 111–358, title III, §303, Jan. 4, 2011, 124 Stat. 3998.)

REFERENCES IN TEXT

Section 302 of this Act, referred to in subsec. (c), is section 302 of Pub. L. 111–358, which amended section 893a of this title.

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