

**NATIONAL SCIENCE FOUNDATION**  
**STEM EDUCATION ADVISORY PANEL**

**Charter**

1. Committee's Official Designation: STEM Education Advisory Panel #2624 ("Panel")
2. Authority: This charter renews the STEM Education Advisory Panel under the authority of the American Innovation and Competitiveness Act (Public Law 114-329; Section 303(b)) and the Federal Advisory Committee Act ("FACA") of 1972 (5 U.S.C, Appendix 2, as amended).
3. Objectives and Scope of Activities: The Panel, pursuant to section 303(c) of Public Law 114-329, shall advise the Committee on STEM Education ("CoSTEM"), periodically assess CoSTEM's progress in carrying out its responsibilities under section 101(b) of the America COMPETES Reauthorization Act of 2010 (42 U.S.C. 6621(b)), and help identify any need or opportunity to update the strategic plan under section 101(b) of that Act.
4. Description of Duties: The Panel shall provide advice and recommendations to CoSTEM on the following topics, as outlined in section 303(c) of Public Law 114-329:
  - a. the management, coordination, and implementation of STEM education programs and activities across the Federal Government;
  - b. the appropriateness of criteria used by Federal agencies to evaluate the effectiveness of Federal STEM education programs and activities;
  - c. whether societal and workforce concerns are adequately addressed by current Federal STEM education programs and activities;
  - d. how Federal agencies can incentivize institutions of higher education to improve retention of STEM students;
  - e. ways to leverage private and nonprofit STEM investments and encourage public-private partnerships to strengthen STEM education and help build the STEM workforce pipeline;
  - f. ways to incorporate workforce needs into Federal STEM education programs and activities, particularly for specific employment fields of national interest and employment fields experiencing high unemployment rates;
  - g. ways to better vertically and horizontally integrate Federal STEM education programs and activities from pre-kindergarten through graduate study and into the workforce, and from in-school and out-of-school in order to improve transitions for students moving through the STEM education and workforce pipelines;
  - h. the extent to which Federal STEM education programs and activities are contributing to recruitment and retention of individuals identified in sections 33 and 34 of the Science and Engineering Equal Opportunities Act (42 U.S.C. 1885a, 1885b) in the STEM education and workforce pipelines; and

- i. ways to encourage geographic diversity in the STEM education and the workforce pipelines.
5. Agency or Official to Whom the Panel Reports: The Panel shall advise CoSTEM. The Panel, not later than one year after the date of enactment of Public Law 114-329 and after each periodic assessment of CoSTEM's progress in carrying out its responsibilities under section 101(b) of the America COMPETES Reauthorization Act of 2010 (42 U.S.C. 6621(b)), shall submit to CoSTEM a report containing recommendations to improve Federal STEM education programs and activities based on the topics outlined in paragraph 4 above. The Panel shall also provide a copy of the report to the appropriate committees of Congress.
6. Agencies Responsible for Providing the Necessary Support: The Director of the National Science Foundation ("NSF"), the Secretary of Education ("ED"), the Administrator of the National Aeronautics and Space Administration ("NASA"), and the Administrator of the National Oceanic and Atmospheric Administration ("NOAA") will jointly make funds available on an annual basis to financially support the activities of the Panel.
7. Estimated Annual Operating Costs and Staff Years: The estimated annual cost of the panel is about \$72,049 which includes about \$46,430 in staff support cost. Staff support is approximately 0.37 person-year. The actual cost will be shared between NSF, ED, NASA and NOAA, subject to availability of appropriations.
8. Designated Federal Officer ("DFO"): A permanent full-time or part-time NSF employee, appointed in accordance with agency procedures, will serve as the DFO (or designee). The DFO (or designee) will approve or call all of the Panel and subcommittee meetings, and prepare and approve all meeting agendas, attend all Panel and subcommittee meetings, and adjourn any meeting when the DFO determines adjournment to be in the public interest.
9. Estimated Number and Frequency of Meetings: The Panel meets approximately two times a year, as necessary.
10. Duration: The charter is subject to renewal every two years.
11. Termination: Unless otherwise authorized by law, the Panel shall terminate five years after the establishment of the Panel, or upon repeal of section 303 of Public Law 114-329, whichever is sooner.
12. Membership and Designation: In accordance with section 303(b) of Public Law 114-329, the Panel will be comprised of no less than 11 members. Members shall be appointed by the NSF Director, in consultation with the Secretary of Education and the heads of the Federal science agencies. Members shall primarily be individuals from academic institutions, nonprofit organizations, and industry, including in-school, out-of-school, and informal education practitioners; and shall be individuals who are qualified to provide advice and information on STEM education research, development, training,

implementation, interventions, professional development or workforce needs or concerns. A solicitation call will be made in the Federal Register for membership to the panel. This call will be made annually as part of the NSF annual call for scientific and technical advisory committee members. Members serve on the panel for up to a three-year term.

The Director will give consideration to recommendations from Congress, industry, the scientific community, including the National Academy of Sciences, scientific professional societies, academia, State and local governments, organizations representing individuals identified in section 33 or section 34 of the Science and Engineering Equal Opportunities Act (42 U.S.C 1885a, 1885b), and such other organizations as the Director considers appropriate.

Members may be comprised of Special Government Employees (SGEs), Regular Government Employees (RGEs), and Representative Members.

13. Subcommittees: NSF, when necessary and consistent with the Panel's purpose, may establish subcommittees, to support the Panel. Such will report their findings and recommendations to the full Panel for full deliberation and discussion.
14. Recordkeeping: The records of the Panel and any subcommittee(s) shall be handled in accordance with General Records Schedule 6.2 or other approved agency records disposition schedule. These records shall be available for public inspection and copying, subject to the Freedom of Information Act, 5 U.S.C. § 552, and 5 U.S.C. App. 2 § 10, as appropriate.
15. Certification: This Panel is determined to be necessary and in the public interest.



Karen Marrongelle  
Assistant Director  
Directorate for Education and Human Resources

**Date Filed with Congress:**  
**October 18, 2019**

