

*Administration of Joseph R. Biden, Jr., 2021*

**Memorandum on Restoring Trust in Government Through Scientific Integrity and Evidence-Based Policymaking**

*January 27, 2021*

*Memorandum for the Heads of Executive Departments and Agencies*

*Subject:* Restoring Trust in Government Through Scientific Integrity and Evidence-Based Policymaking

It is the policy of my Administration to make evidence-based decisions guided by the best available science and data. Scientific and technological information, data, and evidence are central to the development and iterative improvement of sound policies, and to the delivery of equitable programs, across every area of government. Scientific findings should never be distorted or influenced by political considerations. When scientific or technological information is considered in policy decisions, it should be subjected to well-established scientific processes, including peer review where feasible and appropriate, with appropriate protections for privacy. Improper political interference in the work of Federal scientists or other scientists who support the work of the Federal Government and in the communication of scientific facts undermines the welfare of the Nation, contributes to systemic inequities and injustices, and violates the trust that the public places in government to best serve its collective interests.

This memorandum reaffirms and builds on the Presidential Memorandum of March 9, 2009 (Scientific Integrity), and the Director of the Office of Science and Technology Policy's Memorandum of December 17, 2010 (Scientific Integrity).

By the authority vested in me as President by the Constitution and the laws of the United States of America, I direct as follows:

*Section 1. Role of the Director of the Office of Science and Technology Policy.* The Director of the Office of Science and Technology Policy (Director) shall ensure the highest level of integrity in all aspects of executive branch involvement with scientific and technological processes. This responsibility shall include ensuring that executive departments and agencies (agencies) establish and enforce scientific-integrity policies that ban improper political interference in the conduct of scientific research and in the collection of scientific or technological data, and that prevent the suppression or distortion of scientific or technological findings, data, information, conclusions, or technical results. In implementing this memorandum, the Director shall, as appropriate, convene and confer with the heads of agencies and with personnel within the offices of the Executive Office of the President, including the Office of Management and Budget.

*Sec. 2. Task Force on Scientific Integrity.* (a) The Director shall convene an interagency task force (the "Task Force") of the National Science and Technology Council (NSTC) to conduct a thorough review of the effectiveness of agency scientific-integrity policies developed since the issuance of the Presidential Memorandum of March 9, 2009.

(b) The Task Force shall complete its review within 120 days of the date of the appointment of its members, and shall take the following actions when completing its review.

(i) The Task Force shall ensure its review considers whether existing Federal scientific-integrity policies prevent improper political interference in the conduct of scientific research and the collection of scientific or technological data; prevent the suppression or distortion of scientific or technological findings, data, information, conclusions, or



technical results; support scientists and researchers of all genders, races, ethnicities, and backgrounds; and advance the equitable delivery of the Federal Government's programs.

(ii) The Task Force's review shall include an analysis of any instances in which existing scientific-integrity policies have not been followed or enforced, including whether such deviations from existing policies have resulted in improper political interference in the conduct of scientific research and the collection of scientific or technological data; led to the suppression or distortion of scientific or technological findings, data, information, conclusions, or technical results; disproportionately harmed Federal scientists and researchers from groups that are historically underrepresented in science, technology, and related fields; or impeded the equitable delivery of the Federal Government's programs. The scope of this review shall include the work of scientific and technological advisory committees, boards, and similar bodies. The existing policies examined by this review shall include those issued pursuant to the Presidential Memorandum of March 9, 2009, and the Director's Memorandum of December 17, 2010; any other scientific-integrity policies published on agency websites; and commonly accepted scientific-integrity practices.

(iii) The Task Force shall identify effective practices regarding engagement of Federal scientists, as well as contractors working on scientific matters for agencies, with news media and on social media; effective policies that protect scientific independence during clearance and review, and that avoid improper political interference in research or data collection; effective approaches for handling any disagreements about scientific methods and conclusions; effective reporting practices that promote transparency in the implementation of agency scientific-integrity policies and in the handling of any allegations of misconduct; effective practices for educating and informing employees and contractors of their rights and responsibilities related to agency scientific-integrity policies; promising opportunities to address gaps in current scientific-integrity policies related to emerging technologies, such as artificial intelligence and machine-learning, and evolving scientific practices, such as citizen science and community-engaged research; effective approaches to minimizing conflicts of interest in Federal Government science; and policies that support the professional development of Federal scientists in accordance with, and building on, section IV of the Director's Memorandum of December 17, 2010.

(iv) To inform the review, the Task Force shall gather input from stakeholders and the public regarding scientific-integrity practices. The Task Force shall consider obtaining such input through various means, which may include holding a virtual stakeholder summit hosted by the Office of Science and Technology Policy (OSTP), issuing a public request for information, and conducting a virtual listening tour or open forums.

(v) Upon the conclusion of its review, the Director shall publish a report on the OSTP website synthesizing the Task Force's findings. The report shall include a description of agencies' strengths and weaknesses regarding scientific-integrity policies, as well as a description of best practices and lessons learned.

(c) Within 120 days of the publication of the Task Force's initial 120-day review of existing scientific-integrity policies, the Task Force shall develop a framework to inform and support the regular assessment and iterative improvement of agency scientific-integrity policies and practices, to support the Director and OSTP in ensuring that agencies adhere to the principles of scientific integrity. This framework shall include assessment criteria that OSTP and agencies can use to



inform, review, and improve the design and implementation of agency scientific-integrity policies. The Director shall publish this framework on the OSTP website.

*Sec. 3. Agency Scientific-Integrity Policies.* (a) Heads of agencies shall ensure that all agency activities associated with scientific and technological processes are conducted in accordance with the 6 principles set forth in section 1 of the Presidential Memorandum of March 9, 2009, and the 4 foundations of scientific integrity in government set forth in part I of the Director's Memorandum of December 17, 2010.

(b) Heads of agencies shall ensure that their agency scientific-integrity policies reflect the findings in the Task Force report produced under section (2)(b)(v) of this memorandum and apply to all agency employees, regardless of the nature of their appointment, as well as contractors who perform scientific activities for agencies. Heads of agencies shall coordinate with the Director in the development, updating, and implementation of any agency-specific policies or procedures deemed necessary to ensure the integrity of scientific decision-making. The following time frames shall apply when completing the activities described in this subsection:

- (i) The head of each agency with an existing scientific-integrity policy shall submit an updated policy to the Director within 180 days of the publication of the Task Force's report.
- (ii) The head of each agency without an existing scientific-integrity policy shall submit a draft agency scientific-integrity policy to the Director within 180 days of the publication of the Task Force's report.
- (iii) The Director shall expeditiously review scientific-integrity policies submitted by the agencies to ensure that the policies respond to the Task Force's analysis, adhere to the policy directives in this memorandum, and uphold the highest standards of scientific practice.
- (iv) The Director shall notify agencies of any deficiencies in the scientific-integrity policies and collaborate with agencies to expeditiously correct those deficiencies.

(c) In implementing this section, heads of agencies shall:

- (i) Provide the Director with any information the Director deems necessary to conduct the Director's duties under this memorandum;
- (ii) Publish the agency's scientific-integrity policy on the agency's website, and disseminate information about the policy through the agency's social media channels;
- (iii) Develop and publish procedures, as appropriate and consistent with applicable law, for implementing the agency's scientific-integrity policy, including establishing and publishing an administrative process for reporting, investigating, and appealing allegations of deviations from the agency's policy, and for resolving any disputes or disagreements about scientific methods and conclusions;
- (iv) Review and, as needed, update within 60 days of the date of this memorandum any website content, and within 300 days of the date of this memorandum any agency reports, data, and other agency materials issued or published since January 20, 2017, that are inconsistent with the principles set forth in this memorandum and that remain in use by the agency or its stakeholders;
- (v) Educate agency employees, as well as contractors who perform scientific activities for the agency, on their rights and responsibilities related to scientific integrity, including by conducting routine training on the agency's scientific-integrity policy for all employees, and by ensuring any new employees are made aware of their



responsibilities under the agency's scientific-integrity policy shortly after they are hired; and

(vi) Publish, consistent with any requirements related to national security and privacy, as well as any other applicable law, an annual report on the agency's website that includes the number of administrative investigations and appeals involving alleged deviations from the agency's scientific-integrity policies, as described in section (3)(c)(iii) of this memorandum, for the year covered by the report, and the number of investigations and appeals pending from years prior to the year covered by the report, if any.

*Sec. 4. Publication of Scientific-Integrity Policies and Ongoing Biennial Reporting.* (a) The Director shall publish on the OSTP website, and disseminate via social media, information about this memorandum, related OSTP and NSTC reports on scientific integrity, and links to the scientific-integrity policies posted on agency websites, to ensure such information and policies can be easily accessed by the public.

(b) The Director shall publish on the OSTP website, and disseminate via social media, a biennial report on the status of the implementation of this memorandum across the executive branch. This report shall include a review of the impact on scientific integrity of diversity, equity, and inclusion practices related to the Federal scientific and engineering workforce and scientific Federal advisory committees.

*Sec. 5. Evidence-Based Policymaking.* (a) Heads of agencies shall ensure that the scientific-integrity policies of their agencies consider, supplement, and support their plans for forming evidence-based policies, including the evidence-building plans required by 5 U.S.C. 312(a) and the annual evaluation plans required by 5 U.S.C. 312(b).

(b) Within 120 days of the date of this memorandum, after consultation with the Director, the Director of the Office of Management and Budget (OMB) shall issue guidance to improve agencies' evidence-building plans and annual evaluation plans. Specifically, the Director of OMB shall consider whether, consistent with, and building upon, Executive Order 13707 of September 15, 2015 (Using Behavioral Science Insights to Better Serve the American People), agencies' evidence-building plans and annual evaluation plans shall include a broad set of methodological approaches for the evidence-based and iterative development and the equitable delivery of policies, programs, and agency operations. Relevant approaches might include use of pilot projects, randomized control trials, quantitative-survey research and statistical analysis, qualitative research, ethnography, research based on data linkages in which records from two or more datasets that refer to the same entity are joined, well-established processes for community engagement and inclusion in research, and other approaches that may be informed by the social and behavioral sciences and data science.

(c) The statutory positions required to be designated by agencies by the Foundations for Evidence-Based Policymaking Act of 2018 (Public Law 115–435), which include the Evaluation Officer, the Chief Data Officer, and a senior statistical official, shall incorporate scientific-integrity principles consistent with this memorandum into agencies' data governance and evaluation approaches. Similarly, the Chief Data Officers Council shall incorporate scientific-integrity principles consistent with this memorandum into its efforts to establish government-wide best practices for the use, protection, dissemination, and generation of data, and both the Chief Data Officers Council and the Evaluation Officer Council shall identify ways in which agencies can improve upon the production of evidence for use in policymaking.

(d) Consistent with the provisions of the Foundations for Evidence-Based Policymaking Act of 2018, heads of agencies shall, as appropriate and consistent with applicable law, expand open



and secure access to Federal data routinely collected in the course of administering Federal, State, local, Tribal, or territorial government programs or fulfilling Federal, State, local, Tribal, or territorial government mandates, such as tax data, vital records, other statistical data, and Social Security Administration earnings and employment reports, to ensure governmental and non-governmental researchers can use Federal data to assess and evaluate the effectiveness and equitable delivery of policies and to suggest improvements. In implementing this provision, heads of agencies shall:

- (i) Make these data available by default in a machine-readable format and in a manner that protects privacy and confidential or classified information, and any other information protected from disclosure by law;
- (ii) Publish an agency data plan that provides a consistent framework for data stewardship, use, and access. If publishing such a plan is not feasible, then the head of the agency shall publish guidelines outlining how the data were collected, metadata on data use, any limitations on data use, and ways for researchers to provide feedback on data shared;
- (iii) Follow the mandates of the Information Quality Act (section 515 of Public Law 106–554) in assessing and making available to researchers information on the quality of the data being provided; and
- (iv) Where possible, provide such data disaggregated by gender, race, ethnicity, age, income, and other demographic factors that support researchers in understanding the effects of policies and programs on equity and justice.

(e) The Director of OMB shall review whether guidance to agencies on implementation of the Information Quality Act needs to be updated and reissued.

(f) Heads of agencies shall review and expeditiously update any agency policies, processes, and practices issued or published since January 20, 2017, that prevent the best available science and data from informing the agency's evidence-based and iterative development and equitable delivery of policies and programs.

*Sec. 6. Agency Chief Science Officers and Scientific Integrity Officials.* (a) Within 120 days of the date of this memorandum, the heads of agencies that fund, conduct, or oversee scientific research shall, to the extent consistent with applicable law, designate a senior agency employee for the role of chief science officer, science advisor, or chief scientist ("Chief Science Officer"), who shall:

- (i) Serve as the principal advisor to the head of the agency on scientific issues and ensure that the agency's research programs are scientifically and technologically well-founded and conducted with integrity; and
- (ii) Oversee the implementation and iterative improvement of policies and processes affecting the integrity of research funded, conducted, or overseen by the agency, as well as policies affecting the Federal and non-Federal scientists who support the research activities of the agency, including scientific-integrity policies consistent with the provisions of this memorandum.

(b) Because science, facts, and evidence are vital to addressing policy and programmatic issues across the Federal Government, the heads of all agencies (not only those that fund, conduct, or oversee scientific research) shall designate expeditiously a senior career employee as the agency's lead scientific-integrity official ("Scientific Integrity Official") to oversee implementation and iterative improvement of scientific-integrity policies and processes consistent with the provisions of this memorandum, including implementation of the administrative and



dispute resolution processes described in section (3)(c)(iii) of this memorandum. For agencies with a Chief Science Officer, the Scientific Integrity Official shall report to the Chief Science Officer on all matters involving scientific-integrity policies.

(c) To the extent necessary to fully implement the provisions of this memorandum, heads of agencies may designate additional scientific-integrity points of contact in different offices and components, who shall coordinate with the agency's Scientific Integrity Official in implementing the agency's scientific-integrity policies and processes.

(d) Heads of agencies should ensure those designated to serve in the roles described in this section, along with their respective staffs, are selected based on their scientific and technological knowledge, skills, experience, and integrity, including experience conducting and overseeing scientific research and utilizing scientific and technological information and data in agency decision-making, prioritizing experience with evidence-based, equitable, inclusive, and participatory practices and structures for the conduct of scientific research and the communication of scientific results.

(e) The Director or a designee of the Director shall regularly convene Chief Science Officers and Scientific Integrity Officials to encourage the discussion and expansion of effective scientific-integrity policies and practices among agencies.

*Sec. 7. Scientific Advisory Committees.* (a) Within 90 days of the date of this memorandum, heads of agencies shall review their current and future needs for independent scientific and technological advice from Federal advisory committees, commissions, and boards. The review should include an evaluation of those advisory bodies established by law, and should consider both current and anticipated needs.

(b) This review shall assess which Federal scientific and technological advisory committees should be rechartered or recreated to ensure that relevant and highly qualified external experts, with proper safeguards against conflicts of interest, can contribute to critical Federal regulations and other agency actions and decision-making. The review shall also identify any agency policies, processes, or practices that may currently prevent or inhibit relevant and highly qualified external experts from serving on such committees.

(c) In conducting this review, heads of agencies shall take steps to review the membership of scientific and technological advisory committees and, as appropriate and consistent with applicable law, ensure that members and future nominees reflect the diversity of America in terms of gender, race, ethnicity, geography, and other characteristics; represent a variety of backgrounds, areas of expertise, and experiences; provide well-rounded and expert advice to agencies; and are selected based on their scientific and technological knowledge, skills, experience, and integrity, including prioritization of experience with evidence-based, equitable, inclusive, and participatory practices and structures for the conduct of scientific research and the communication of scientific results.

(d) Upon completion of their 90-day review, heads of agencies shall provide a summary report to the Director and the Director of OMB with recommendations on which Federal scientific and technological advisory committees should be rechartered or recreated in accordance with subsection (b) of this section; which scientific and technological advisory committees should be prioritized for membership appointments to ensure they provide well-rounded and expert advice reflecting diverse perspectives, in accordance with subsection (c) of this section; and which agency policies, processes, or practices, if any, should be updated to encourage relevant and highly qualified external experts to serve on such committees.

*Sec. 8. General Provisions.* (a) Nothing in this memorandum shall be construed to impair or otherwise affect:



(i) the authority granted by law to an executive department or agency, or the head thereof; or

(ii) the functions of the Director of the Office of Management and Budget relating to budgetary, administrative, or legislative proposals.

(b) This memorandum shall be implemented consistent with applicable law and subject to the availability of appropriations.

(c) This memorandum is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.

JOSEPH R. BIDEN, JR.

NOTE: An original was not available for verification of the content of this memorandum.

*Categories:* Communications to Federal Agencies : Scientific integrity and evidence-based policymaking, efforts to restore trust in Government, memorandum.

*Subjects:* Civil rights : Racial equality; Civil rights : Women's rights and gender equality; Government organization and employees : Accountability and transparency, strengthening efforts; Government organization and employees : Federal programs, improvement efforts; Government organization and employees : Federal regulations, review; Government organization and employees : Restructuring and reform; Science and technology : Research and development; Science and technology : Scientific integrity, strengthening efforts.

*DCPD Number:* DCPD202100096.