

About OSTP

In 1976, recognizing the need to coordinate the Federal science and technology policy, and provide the President with the best possible guidance on advances in science and technology, Congress established the White House Office of Science and Technology Policy (OSTP). Today, OSTP works to maximize the benefits of science and technology to advance health, prosperity, security, environmental quality, and justice for all Americans.

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Office of Science and Technology Policy (OSTP)

Description:

OSTP is composed of a Director's Office and six core policy teams: Climate and Environment, Energy, Health and Life Sciences, National Security, Science and Society, and the U.S. Chief Technology Officer. We are guided by a core set of values.

Stakeholder(s):

President :

OSTP advises the President jointly with the Office of Management and Budget on Federal research development in budgets, works closely with the National Security Council on the American Pandemic Preparedness Plan, and leads the White House Cancer Moonshot.

Dr. Alondra Nelson :

Director ~ Dr. Alondra Nelson is performing the duties of the Director of the White House Office of Science and Technology Policy (OSTP). Nelson assumed this role on February 17, 2022. She leads OSTP's six policy divisions in their work to advance critical Administration priorities including groundbreaking clean energy investments; a people's Bill of Rights for automated technologies; a national strategy for STEM equity; appointment of the nation's Chief Technology Officer; data-driven guidance for implementing the Bipartisan Infrastructure Law; a transformative, life-saving Community Connected Health initiative; and programs to ensure the U.S. remains a magnet for the world's top innovators and scientists. Dr. Nelson, a Deputy Assistant to the President, has served since Day 1 of the Biden-Harris Administration as Deputy Director of the newly-created OSTP Science and Society Division. In that role, Nelson directed priority efforts to protect the integrity of science in the federal government, broaden participation in STEM fields, strengthen the U.S. research infrastructure, and ensure that all Americans have equitable access to the benefits of new and emerging technologies and scientific innovation. She has played a key role in overseeing the implementation of the President's early directives on Restoring Trust in Government Through Scientific Integrity and Evidence-Based Policymaking and on Advancing Racial Equity and Support for Underserved Communities Through the Federal Government. A renowned scholar of science, technology, medicine, and social inequality, Nelson has served since 2019 as the Harold F. Linder Professor at the Institute for Advanced Study in Princeton, New Jersey and was previously Dean of Social Science at Columbia University. From 2014 to 2017, she led the Social Science Research Council as the international research organization's president and CEO, directing historic efforts to apply the insights of social science to the work of making technology development more equitable. Nelson is the author of numerous books and articles. She is a fellow of the American Association for the Advancement of Science and a member of the National Academy of Medicine and the American Academy of Arts and Sciences.

President's Council of Advisors on Science and Technology :

OSTP's Senate-confirmed Director may also serve as Assistant to the President for Science and Technology. The Director co-chairs the President's Council of Advisors on Science and Technology (PCAST) and supports the Cabinet-level National Science and Technology Council (NSTC), which is chaired by the President.

National Science and Technology Council

OSTP Teams :

OSTP's six policy teams work to advance critical Administration science and technology priorities including groundbreaking clean energy investments; a people's Bill of Rights for automated technologies; a national strategy for STEM equity; data-driven guidance for implementing the Bipartisan Infrastructure Law; a life-saving Community Connected Health initiative; and programs to ensure the U.S. remains a magnet for the world's top innovators and scientists.

Climate and Environment Team :

The Climate and Environment Team works to advance the Biden-Harris Administration's climate, environmental justice, and nature priorities so that all communities have access to and opportunities to help create a healthy, prosperous, resilient, and sustainable future. The Climate and Environment Team strives to:

- 1. Provide clear, useful, and useable science and knowledge to inform the Administration's climate, environment, and nature policies, actions and initiatives by engaging across the Federal community as the clear voice of science, coordinating relevant science and policy processes, collaborating with partners, and connecting with stakeholders outside of government on issues related to climate and environment;*
- 2. Ensure the Federal Government is a source of credible, useful, science-based information on climate, nature, and the environment;*
- 3. Advance equity and inclusion, including through respectful and thoughtful engagement and the development of knowledge and science-based policies and processes that enhance equity, environmental justice, and opportunities for all.*

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Stakeholders (continued)

Dr. Jane Lubchenco :

The team is led by Dr. Jane Lubchenco, OSTP's Deputy Director for Climate and Environment.

Energy Team :

The Energy Team provides science and policy expertise on energy and net-zero emissions technologies, and leads coordination on net-zero emissions innovation for the Biden-Harris Administration. OSTP Energy has deep technical and policy expertise, and helps develop innovation priorities for mid-to-long term technologies to ensure the success and rapid adoption needed for a clean, secure, and equitable clean energy transition. The Energy Team advances the clean energy priorities of the Administration by:

- *Co-leading a whole-of-government effort on national net-zero innovation priorities in nascent clean energy technologies to reduce costs, improve performance, accelerate technology adoption, increase production capabilities, as well as accelerate game-changing technologies that have not yet been fully developed.*
- *Collaborating with Federal agencies to develop a bold decadal vision for commercial fusion energy. OSTP co-hosted the first-ever White House Summit on Fusion Energy in 2022.*
- *Developing a national electrification innovation strategy to enable widespread electrification of light-duty vehicles and residential/commercial heating.*
- *Co-leading a whole-of-government effort on innovation in energy data and analytics, ensuring most up-to-date data are used to support evidence-based analysis for actions and decisions supporting a clean, rapid, and equitable energy transition.*
- *Leading the Biden-Harris Administration's assessment of the climate, environmental, and energy policy implications of cryptocurrencies and digital assets.*

Dr. Sally Benson :

The team is led by Dr. Sally Benson, OSTP's Deputy Director for Energy and Chief Strategist for the Energy Transition.

Health and Life Sciences Team :

The Health and Life Sciences Team is advancing a portfolio that demonstrates the critical importance of science and technology in improving human health, and the role of life sciences in addressing the highest priorities of the Biden-Harris Administration. Building on lessons learned from the historic COVID-19 pandemic and unprecedented opportunities in the life sciences, the Health and Life Sciences Team's priority efforts include: bio-preparedness, including pandemic preparedness, antimicrobial resistance, and biosecurity, health systems and health equity, accelerating biomedical innovation to patients, and innovation across the life sciences enterprise, including agriculture, biotechnology, and biomanufacturing. The team's approach includes seeking systemic science and technology policy opportunities that crosscut health and life sciences goals.

Dr. Carrie Wolinetz :

The team is led by Dr. Carrie Wolinetz, OSTP's Deputy Director for Health and Life Sciences.

National Security Team :

The National Security Team advances the President's agenda by strengthening our long-term global competitiveness and reducing catastrophic risks through the assessment, development, deployment, and governance of current and emerging technologies. To strengthen global competitiveness, the team works to develop long-term science and technology (S&T) strategies, improve S&T intelligence, shape new investments in foundational technologies, modernize national security systems, ensure supply chain security, cultivate an agile innovation base, enhance export and investment controls, and build the world's best STEM workforce. They also work to reduce catastrophic risks at the intersection of technology and global security, spanning nuclear, biological, cyber, and autonomous technologies, associated risks of war, pandemics, and large-scale disasters, as well as emergent risks in space, ocean, and polar domains.

The National Security Team includes the National Quantum Coordination Office (NQCO) which works to accelerate quantum information science and technology research and development in the United States.

Dr. Morgan Dwyer :

The team is led by Dr. Morgan Dwyer, OSTP's Principal Assistant Director for National Security.

Science and Society Team :

The Science and Society Team advances the President's commitment to ensuring all of America can participate in, contribute to, and benefit from science and technology. An inaugural White House team, Science and Society's role is to develop evidence-based policy at the intersection of science, technology, and innovation, reflecting the perspectives of the individuals and communities who make up civil society. The Science and Society Team directs priority efforts to protect the integrity of science in the federal government, broaden participation in STEM fields, strengthen the U.S. research infrastructure and its security, and ensure that all Americans have equitable access to the benefits of new and emerging technologies and scientific innovation.

The Science and Society Team brings a broad and multidisciplinary set of expertise to develop policy that addresses Biden-Harris Administration priorities to:

- *Promote the best-available science and data to drive decision making in the Federal government, with particular emphasis on the role of social and behavioral science evidence and the advancement of equity through the Year of Evidence for Action;*
- *Advance equity across the science and technology ecosystem, especially for marginalized, under-served, and under-resourced populations in science and technology fields, by removing structural barriers that prevent equitable participation through The Time is Now initiative, and a national science and technology equity strategy;*

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Stakeholders (continued)

- *Ensure automated technologies, including AI, advance democratic values, by coordinating a civil rights based framework for the development, deployment, and use of emerging technologies through an “AI Bill of Rights”;*
- *Protect the integrity and independence of the Federal science ecosystem by promoting open science, safeguarding against interference, and making the insights of scientific research more accessible to all people;*
- *Increase public access to and engagement with Federally funded research results, resources, and data repositories; including through community-driven research agendas; prizes, challenges, “citizen” science, crowdsourcing, and other methods of open innovation.*

Dr. Jedidah Isler :

The team is led by Dr. Jedidah Isler, OSTP’s Principal Assistant Director for Science and Society.

U.S. Chief Technology Officer Team :

The U.S. Chief Technology Officer (CTO) Team works to maximize the benefits of technology and data for all Americans. This includes ensuring that the U.S. government can leverage tech and data to effectively deliver services, that U.S. policy is informed by tech and data expertise, and that America continues to lead the world in values-driven technological research and innovation. For example, the CTO Team works to harness

the benefits of artificial intelligence (AI) for the American people while identifying and mitigating its pitfalls. It also works to ensure the U.S. government has the capacity to use data and technology to equitably and efficiently deliver services to achieve key policy priorities. Crucially, the CTO Team coordinates across the U.S. government to establish clear policies governing public and private sector use of technologies, and to ensure all administration policy is tech-informed.

The Office of the U.S. Chief Technology Officer is often called the Tech Team. The team will be led by the Chief Technology Officer (CTO) of the United States, after a U.S. CTO has been nominated by the President and confirmed by the Senate. The team includes the National Artificial Intelligence Initiative Office (NAIIO), which advances and coordinates federal work and policy on AI, including expanding access to AI resources to more researchers. The Tech Team also includes the U.S. Chief Data Scientist, whose team works to ensure that data science helps equitably tackle our nation’s biggest challenges.

Alexander “amac” Macgillivray :

Principal Deputy U.S. CTO

Dr. Lynne Parker :

Deputy U.S. CTO and Director of the NAIIO

Denice Ross :

Deputy U.S. CTO and U.S. Chief Data Scientist

Vision

Health, prosperity, security, environmental quality, and justice for all Americans

Mission

To maximize the benefits of science and technology to advance health, prosperity, security, environmental quality, and justice for all Americans.

Values

Science:**Our Work**

- We work as one team collaborating toward a common goal: ensuring that science and technology best serve the country.
- We develop policy that is science-driven, and based on evidence, exploration, open-mindedness, rigor, honesty, and scientific integrity.
- We work to ensure that all Americans can participate in and benefit from science and technology.

Technology**Health****Prosperity****Security****Environmental Quality**

Justice

Culture:

Our Culture

- We commit to an OSTP that looks like America and values our diverse backgrounds, disciplines, and experiences.
- We strive to create an environment where everyone feels welcome to contribute and ask questions.
- We support personal and professional development, because everyone should be continuing to grow in their skills and experiences.
- We strive to work hard, because our mission is important, and to support a healthy work-life balance, because wellbeing and happiness are also important.
- We care about our colleagues as individuals, not just for their work.
- We commit to treat everyone with respect and kindness, and to assume best intentions from each other.

Diversity

Wellbeing

Happiness

Respect

Kindness

Inclusion

Integrity

Partnership

1. Advice

Provide advice to the President and the Executive Office of the President on all matters related to science and technology

Stakeholder(s)

President

Executive Office of the President

2. Plans, Policies & Programs

Steward the creation of bold visions, unified strategies, clear plans, wise policies, and effective, equitable programs for science and technology, working with departments and agencies across the Federal government and with Congress

Stakeholder(s)

Federal Government

Congress

3. Partnerships

Engage with external partners, including industry, academia, philanthropic organizations, and civil society; state, local, Tribal and territorial governments; and other nations

Stakeholder(s)

Industry

Academia

Philanthropic Organizations

Civil Society

State Governments

Local Governments

Tribal Governments

Territorial Governments

Other Nations

4. Inclusion & Integrity

Work to ensure inclusion and integrity in all aspects of science and technology.

Administrative Information

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