

Read our COVID-19 research and news.

Advertisement



President Donald Trump GAGE SKIDMORE/FLICKR (CC BY-SA 2.0)

Trump once again requests deep cuts in U.S. science spending

By Science News Staff | Mar. 11, 2019, 12:15 PM

Become a Member

Yut in \$4 ⊕ illion ≥ lest for the 2020 fiscal year that begins 1 October, released today, is already drawing bipartisan pushback from lawmakers in Congress and—as with past Trump administration requests—many of the cuts are unlikely to be enacted into law.

The president's science adviser, Kelvin Droegemeier, calls the request "an important down payment on America's future." A statement from the White House Office of Science and Technology Policy (OSTP), which he leads, says the president's budget "promotes responsible spending [by] prioritizing high-impact programs that have been shown to be effective."

SIGN UP FOR OUR DAILY NEWSLETTER

Email Address *

Get more great content like this delivered right to you!

The OSTP statement cites artificial intelligence (AI), quantum information science, wireless 5G communications, and advanced manufacturing as administration priorities. It says the request would allocate \$850 million for AI development and \$430 million for quantum science across several agencies. But it's impossible to tell whether that level of investment is higher or lower than current spending.

What is clear, however, is that those investments would be part of a diminished federal research enterprise. The OSTP statement says the president's 2020 request represents an overall federal investment of \$134 billion in R&D. That figure, if enacted, would be 11% lower than the estimated \$151.5 billion being spent this year on R&D.

Rush Holt, CEO of AAAS (which publishes *Science*Insider) in Washington, D.C., says a reduction of that magnitude "would derail our nation's science enterprise." The president's 2020 budget doesn't match the administration's rhetoric on the importance of research in preserving a healthy U.S. economy, says Holt, who calls on Congress to reverse the cuts, as it has done since Trump took office.

Here are some highlights from the request:

NIH

The request would slash NIH's budget by \$5 billion to \$34.4 billion, a 13% cut.

A new pediatric cancer initiative at the National Cancer Institute (NCI) would receive \$50 million for drug discovery, studying the biology of pediatric cancers, and pooling data from cancer cases and

Become a Member

y `ut in 1e' ⊕ arche wave expressed concern about focusing the initiative too heavily on data sharing. The advocacy community worries it will come at the expense of other pediatric cancer research and the overall NCI budget, which would fall 15% to \$5.2 billion in the request.

NIH's Centers for AIDS Research would receive \$6 million as part of Trump's plan, announced in his State of the Union address, to **reduce HIV infections by 90% over the next decade**. The proposal would maintain this year's level of \$500 million for NIH's 1-year-old Helping to End Addiction Long-Term Initiative to combat opioid addiction.

Trump also wants to fold the stand-alone Agency for Healthcare Research and Quality (AHRQ) into a new addition to NIH's current 27 institutes, the National Institute for Research on Safety and Quality, which would receive \$256 million. Congress has rejected past efforts by Trump to transfer AHRQ to NIH.

Advocacy groups were disappointed by the proposed cut to NIH. The American Society for Biochemistry and Molecular Biology in Rockville, Maryland, warned that "the proposal threatens the progress of biomedical research."

NASA

NASA has the moon on its mind. Fresh from Congress largely supporting its plans to return to the moon, the White House's request calls for delaying the heavier-lift version of its long-delayed rocket, the Space Launch System (SLS), repurposing that money to support its development of a small lunar-orbiting space station, now called the Lunar Gateway, and commercially developed landers.

Overall, the agency's proposed budget would drop 2.2% from this year's enacted levels, with a **more than 8% drop in its science portfolio**. The request proposes canceling the Wide Field Infrared Survey Telescope, as well as earth science missions, including the Plankton, Aerosol, Cloud, ocean Ecosystem satellite and the Climate Absolute Radiance and Refractivity Observatory Pathfinder. Congress has blocked these proposed cuts in past budgets and seems likely to do so again.

The budget would start work on the agency's next mission to Mars, which would return samples collected by the Mars 2020 rover, launching next year. However, the proposal did not detail the dollars committed to such sample return. The budget also continues to fully fund the troubled James Webb Space Telescope, now set for a March 2021 launch. And, notably, the administration has given up trying to kill two earth science missions: the Earth-facing cameras on the Deep Space Climate Observatory and the Orbiting Carbon Observatory-3, set for launch to the International Space Station next month.

Become a Member

f t[†] in LS' annec' grades, known as "Block 1B," to instead support its lunar investments, including small commercial landers within the next few years and, by 2022, the launch of the Gateway's first elements.

Although Congress has supported the administration's past moon plans, it remains to be seen how lawmakers, who have fended off many past budgetary attacks to the SLS, will react to the proposed delays.

Other agencies

The document the White House released today provides relatively few details about many agencies, and the administration has said it will issue the bulk of its spending plan on 18 March. Even then, it could be several additional weeks until the full scope of the administration's proposal for specific agencies becomes clear.

Today's document, however, does include these nuggets:

- NSF would face a cut of roughly \$1 billion, to \$7.1 billion, a 12% reduction.
- At the Department of Energy, the Office of Science's budget would shrink by roughly 17%, to \$5.5 billion. The department's Office of Energy Efficiency and Renewable Energy would shrink by 86%, from \$2.379 billion to \$343 million. And the administration has again proposed eliminating the \$366 million Advanced Research Projects Agency- Energy. Congress has rejected similar requests in the past.
- At the Environmental Protection Agency, the administration is again proposing to take an ax to climate and research programs. Overall, the agency's budget would shrink by nearly one-third, from about \$8.8 billion to \$6.1 billion. Its science and technology programs would be funded at about \$440 million, nearly 40% below the current level of \$718 million. The budget line for air and energy research, which includes climate change science, would drop by more than \$60 million, from about \$95 million to \$32 million. Congress has repeatedly rejected such proposed cuts.
- The National Institute of Standards and Technology would receive \$688 million, down 30% from this year's appropriation of \$986 million. However, the administration once again wants to eliminate the Manufacturing Extension Partnership, a program popular with Congress, which this year received \$140 million to bolster commercial activities.
- The Census Bureau would get \$7.2 billion to complete the run-up to the decennial census in April 2020. That amount is in line with earlier outyear projections of what the bureau would need in the last vear of its 10-vear cvcle. and slightly lower than a \$7.4 billion figure issued by Commerce

Become a Member

ອ nill' in 'nc' ອ e₂ of ? <mark>™</mark> to \$500 million. Overall, however, USDA's budget would be cut 15%, Including an apparent 8% cut, to \$1.2 billion, for the department's Agricultural Research Service.

Overall, White House officials say their goal is to cut spending on domestic and foreign aid programs by about 5% below this year's levels while increasing military spending. At the same time, the administration says it wants to generally abide by a 2011 law that calls for reducing nondefense spending by 9% and defense spending by 11% in 2020, compared with this year's spending.

To meet those objectives while increasing defense spending, today's request employs a number of accounting gimmicks that are likely to be rejected by Congress, setting the stage for another fight over revising the spending caps. Three similar battles in recent years have resulted in Congress and the White House increasing the caps, in some cases enabling **substantial spending increases for many agencies that fund or conduct research**.

This year's battle will begin in earnest this week, as spending panels in both the **Senate** and the **House of Representatives** are scheduled to begin to review the president's request.

Posted in: **Science and Policy**, **Trump administration** doi:10.1126/science.aax2964

Science News Staff

Y Twitter

More from News

Climate science critic to be chief scientist at key U.S. climate research agency	Science INSIDER
Former Los Alamos physicist gets probation for failing to disclose China ties	
'The warning lights are flashing.' Report finds nations failing to protect biodiversity	
<i>Science's</i> extensive COVID-19 coverage is free to all readers. To support our no journalism, please make a tax-deductible gift today.	nprofit science

Become a Member



Advertisement

Advertisement

Become a Member

➡5. Ocean's hidden heat measured with earthquake sounds

Sifter

This tiny device harvests energy from a simple breeze By Lucy Hicks | Sep. 23, 2020

Images of a black hole reveal how cosmic beasts change over time

By Rasha Aridi Sep. 23, 2020

Cancer drug shrinks 'undruggable' lung tumors

By Jocelyn Kaiser | Sep. 21, 2020

Australian labradoodles are mostly poodle, genetic analysis reveals By Rasha Aridi | Sep. 11, 2020

The giant Megalodon shark was three times as big as a great white, new measurements show By Rebekah Tuchscherer | Sep. 4, 2020

More Sifter

Disgraced researchers can still reap drug industry payouts

Read the Latest Issue of Science

RESEARC

PHARMACOLOGY/TOXICOLOGY

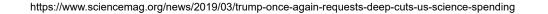
2 October 2020

Vol 370, Issue 6512

PHARMACOLOGY/TOXICOLOGY

Official inaction

Become a Member











in G 275 Related Jobs

Senior Research Assistant

University of Texas MD Anderson Cancer Center Houston, Texas

Assistant/Associate Professor of Immunology

Dana-Farber Cancer Institute Boston, Massachusetts

Adaptive Management and Evaluation Officer - Science

Elissa Kittner Palo Alto, CA

MORE JOBS

Latest News

Trending

1. This \$1 hearing aid could treat millions with hearing loss

2. The short weird life-and potential afterlife-of quantum radar

- 3. A sparkling beetle could spell doom for North America's ash trees
- 4. From 'brain fog' to heart damage, COVID-19's lingering problems alarm scientists
- 5. Plant trees or let forests regrow? New studies probe two ways to fight climate change

Most Read

- 1. 'Viking' was a job description, not a matter of heredity, massive ancient DNA study shows
- 2. These 120,000-year-old footprints offer early evidence for humans in Arabia

Become a Member

The 'bat man' tackles COVID-19

CELL BIOLOGY

Stem cell studies probe origins of the placenta

BOTANY

Record U.S. and Australian fires raise fears for many species

Table of Contents

Get Our E-Alerts

Receive emails from Science. See full list

NEURODEGENERATION

- Science Table of Contents
- Science Daily News
- Veekly News Roundup
- Science Editor's Choice
- ✓ First Release Notification
- ✓ Science Careers Job Seeker

United States

Email address*

I also wish to receive emails from AAAS/Science and Science advertisers, including information on products, services, and special offers which may include but are not limited to news, career information, & upcoming events.

Sign up today

Required fields are indicated by an asterisk (*)

About Us

Journals

Become a Member

10/2/2020

Advertising Kits Awards and Prizes Custom Publishing Webinars

For Authors

Submit Information for Authors Editorial Policies

For Librarians

Manage Your Institutional Subscription Information for Librarians Request a Quote FAQs

Related Sites

AAAS.org EurekAlert! Science in the Classroom Science Magazine Japanese

Help

Access and Subscriptions
Order a Single Issue
Reprints and Permissions
Contact Us
Accessibility



© 2020 American Association for the Advancement of Science. All rights Reserved. AAAS is a partner of HINARI, AGORA, OARE, CHORUS, CLOCKSS, CrossRef and COUNTER.

Terms of Service Privacy Policy Contact AAAS