

# The Short-Term Federal Research Funding Outlook

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November 10, 2019

For the APLU Annual Meeting

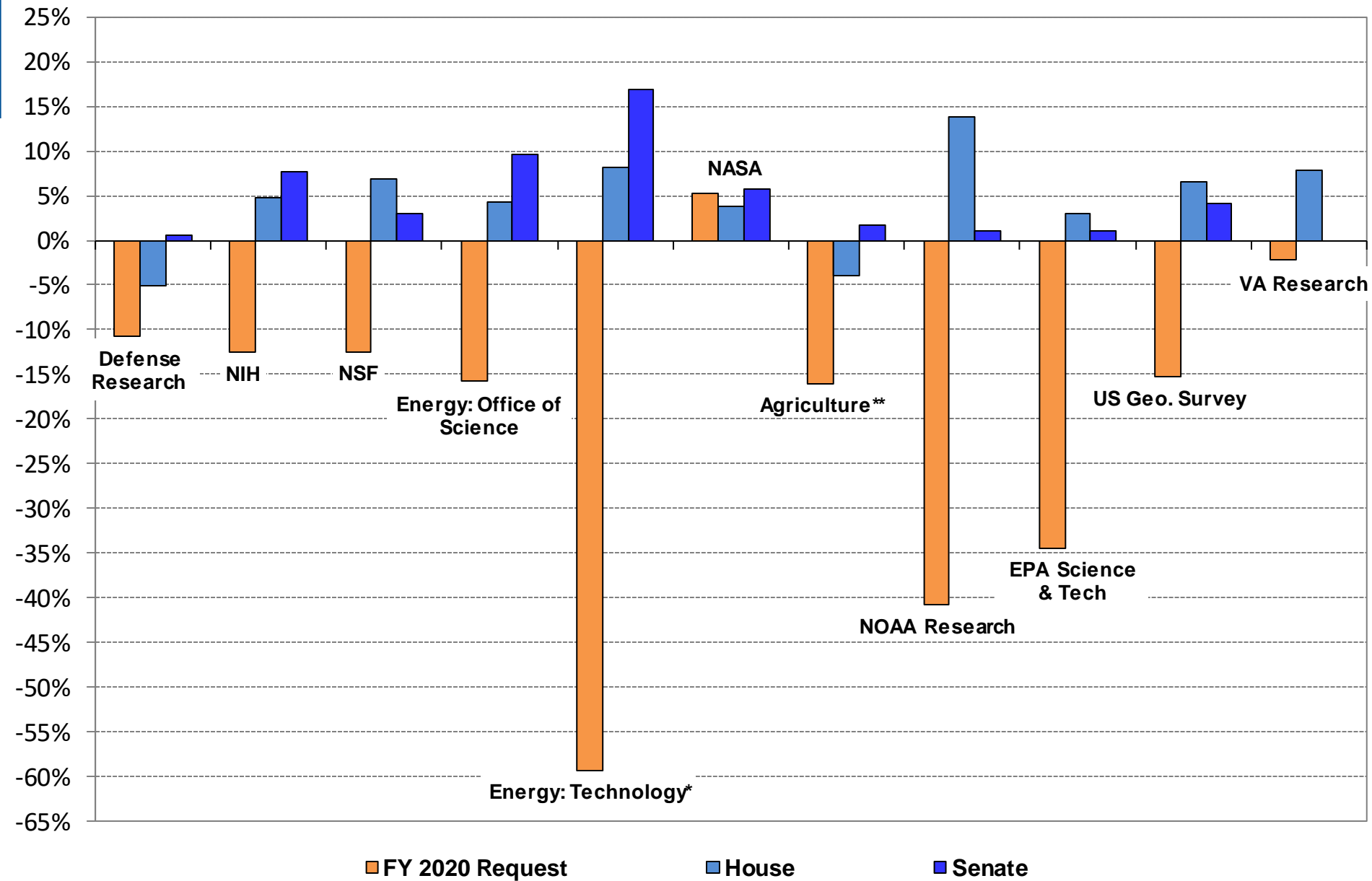
AAAS R&D Budget and Policy Program

<http://www.aaas.org/rd>



# Select Science & Tech Programs in FY 2020 Appropriations So Far

*Estimated percentage change from FY 2019, nominal dollars*



\*Includes renewables and efficiency, nuclear, fossil, grid research, cybersecurity, ARPA-E. \*\*Includes ARS, NIFA, ERS, NASS. Senate figures (except NIH) refer to mix of committee- and floor-approved funding. Most House figures have been approved on floor. | AAAS 11.5.19

# The Appropriations Cycle Goes Ever On...

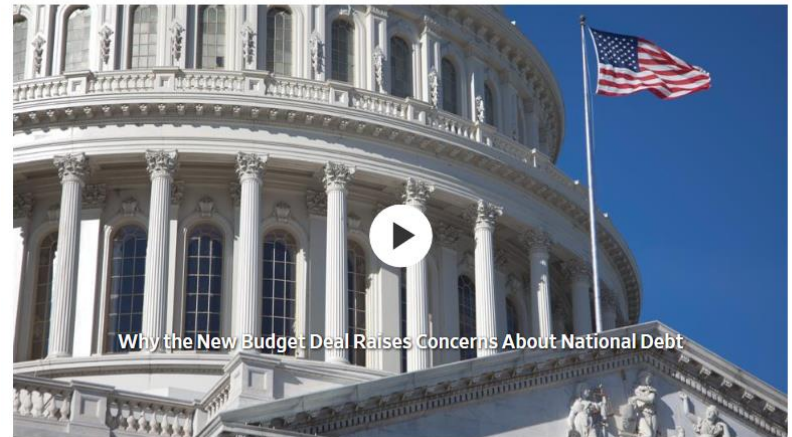
- House: 10 of 12 through floor
- Senate: 4 of 12 through floor
- House and Senate still need to:
  - Agree on size of each bill
  - Conference to resolve differences
- **Continuing Resolution** signed into law, keeps the lights on until November 21
- Another CR is likely...but for how long?
  - Appropriators meeting Tuesday
- Major issues:
  - Border wall
  - Impeachment?
  - Abortion funding



POLITICS

## Spending Bills Divide Congress as Funding Deadline Nears

Border wall remains sticking point in talks ahead of Nov. 21 deadline to avoid government shutdown



President Trump and Congress reached a spending deal this summer that adds significantly to the federal budget deficit. In this video from July 2019, WSJ's Gerald F. Seib explains why the new agreement may focus attention on runaway government spending. Photo: Associated Press

By Andrew Duehren and Lindsay Wise

Nov. 4, 2019 5:06 pm ET

WASHINGTON—With less than three weeks before the federal government runs out of money, lawmakers and Trump administration officials are accelerating efforts to solve politically difficult spending questions, including border-wall funding.

(Image source: *Wall Street Journal*)

# FY 2021 White House R&D Priorities



1. **American Security** (new: critical minerals)
2. **Future Industries**
3. **Energy & Environment** (new: nuclear R&D; ocean research and exploration; earth system predictability and modeling)
4. **Health & Bioeconomic Innovation** (new: focus on safe biotech and growth of bioeconomy)
5. **Space Exploration** (new: Moon and Mars resource utilization)

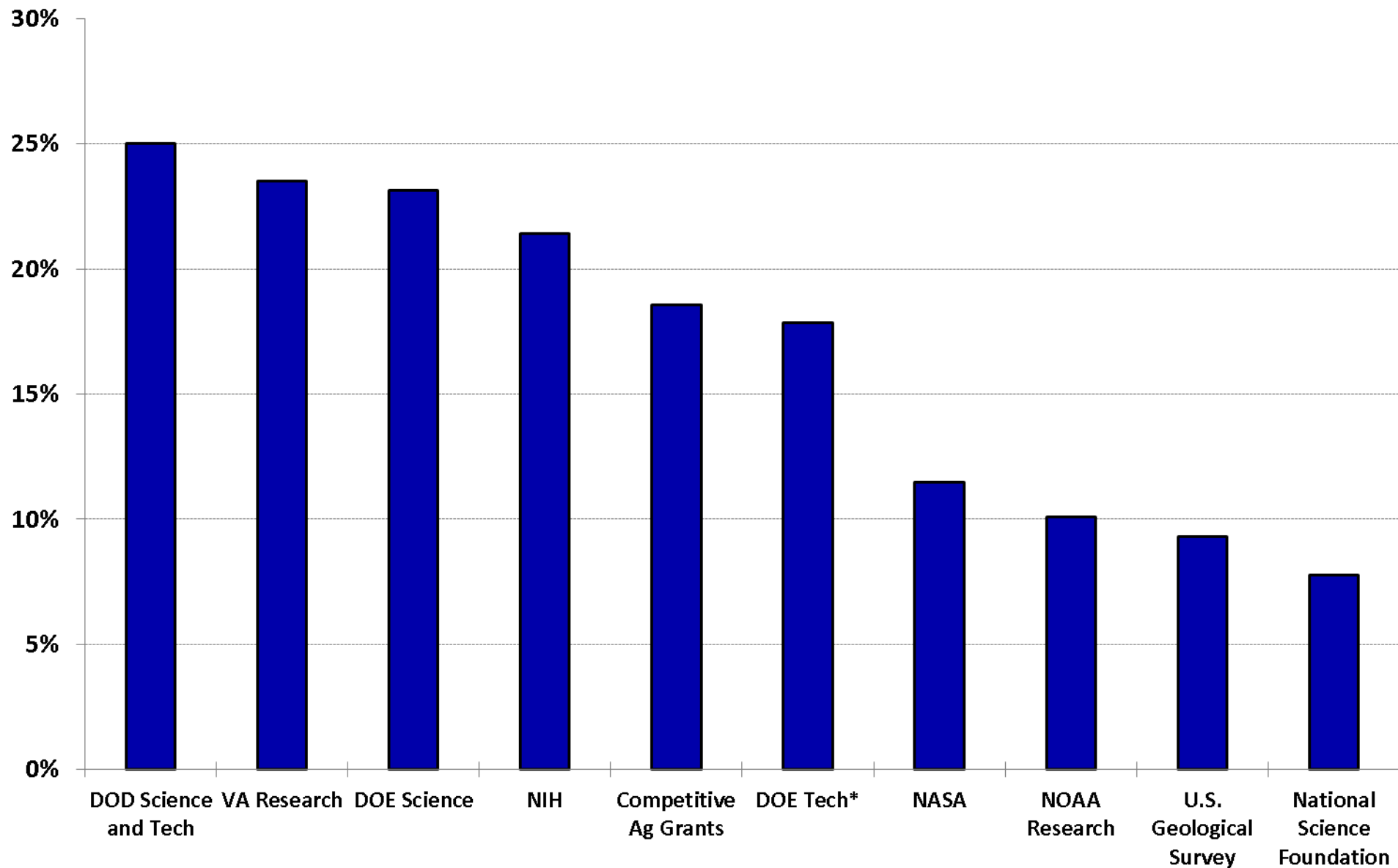
And crosscutting topics including:  
STEM workforce, research environment, high risk/reward research, data strategy, partnerships

Source: FY21 S&T Priorities Memo (<https://www.whitehouse.gov/wp-content/uploads/2019/08/FY-21-RD-Budget-Priorities.pdf>)

The screenshot shows the Science magazine website. The top navigation bar includes 'Science', 'Contents', 'News', 'Careers', and 'Journals'. Below the navigation is a 'SHARE' section with social media icons for Facebook (344 shares), Twitter, LinkedIn, and Email (2 shares). The main image shows a man in a suit, identified as Science adviser Kelvin Droegemeier. The article title is 'New memo offers first glimpse of how Trump's science adviser would like to shape spending priorities' by Jeffrey Mervis, dated Sep. 4, 2019, 4:00 PM. The article text states: 'A new White House directive laying out next year's spending priorities for federal research agencies describes a U.S. science enterprise imperiled by internal problems and foreign governments. It's the first time this annual exercise has addressed the perceived threat to research posed by Chinese government entities. The nine-page memo also incorporates several favorite themes from recently arrived presidential science adviser Kelvin Droegemeier, notably, that the continued health of U.S. research enterprise depends on preserving "American values" and that scientists must do a better job of modeling and predicting environmental variability.'

# Science Agency Budget Increases Since January 2017

*Percent change from FY 2016 - FY 2019, nominal dollars*



\*Nuclear, fossil, renewables, efficiency, grid, ARPA-E.

Source: agency budget documents and appropriations. Note: inflation is 3.3% over this time. | AAAS 2018

For more info...



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