



# FASEB

Federation of American Societies  
for Experimental Biology

*Representing Over 130,000 Researchers*

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Testimony of the

**Federation of American Societies for Experimental Biology**

Prepared for the

**House Committee on Appropriations**  
**Subcommittee on Energy and Water Development, and Related Agencies**  
Representative Marcy Kaptur, Chair  
Representative Mike Simpson, Ranking Member

On

**FY 2020 Appropriations for the Department of Energy Office of Science**

**The Federation of American Societies for Experimental Biology (FASEB) respectfully requests a minimum of \$7.0 billion in fiscal year (FY) 2020 for the Department of Energy Office of Science.**

The Department of Energy Office of Science (DOE SC) is the nation's largest funder of basic physical sciences research. Many transformative innovations and technologies can be traced to DOE SC research, including solar cells, superconductors, and nanotechnology.<sup>1</sup>

This capacity for discovery comes in large part from DOE SC National Laboratories, which house state-of-the-art scientific instrumentation and computing facilities that no single institution could afford to construct or manage. The laboratory facilities provide unique equipment to a very large number of researchers, enabling them to translate discoveries into new inventions that drive the economy and improve quality of life.

Importantly, in FY 2015, nearly 3,000 NIH and NSF-supported scientific projects used DOE SC facilities. In all, more than 32,000 scientists and engineers currently use DOE SC labs for research and development<sup>2,3</sup> – a 14% increase since FY 2015.<sup>4</sup>

The demand for DOE user facilities is growing, necessitating new investments in instrumentation, equipment, and scientific infrastructure. A FY 2020 budget of \$7.0 billion (\$415 million above FY 2019<sup>5</sup>) would support these critical investments and support continued pathbreaking research in emerging areas such as artificial intelligence and quantum technology. This recommendation is consistent with the growth trajectory proposed by the Senate Energy and Natural Resources Committee in reauthorizing DOE SC.<sup>6</sup>

**FASEB FY 2020 recommendation: at least \$7.0 billion for DOE SC**

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<sup>1</sup>[\*A Remarkable Return on Investment in Fundamental Research: 40 Years of Basic Energy Sciences at the Department of Energy, 2018.\*](#)

<sup>2</sup>[Department of Energy Office of Science FY 2019 Budget Request to Congress: Overview. United States Department of Energy Office of Science, Washington, DC](#)

<sup>3</sup>[Office of Science User Facilities: Fiscal Year 2015. United States Department of Energy Office of Science, Washington, DC.](#)

<sup>4</sup>[Department of Energy Office of Science FY 2015 Budget Request to Congress: Overview. United States Department of Energy Office of Science, Washington, DC](#)

<sup>5</sup>[H.R.5895 - Energy and Water, Legislative Branch, and Military Construction and Veterans Affairs Appropriations Act, 2019](#)

<sup>6</sup>[S. 2012 – North American Energy Security and Infrastructure Act of 2016.](#)