

Funding Research and Graduate Education

An Investment in the Future



NAGPS Legislative
Concerns Committee

We urge you to support legislation that:

Increases and sustains research funding to the NSF, NIH, national labs, and other federal research agencies to account for budget caps and sequestration cuts

Reinstates and ensures future NSF funding for all types of political science research

Restores funding for the Javits and GAANN fellowship programs to \$39 million

The Benefits of Science, Technology, Engineering and Math (STEM) Funding

- 53% of basic academic science research in the United States is funded through the federal government [1].
- More than 80,000 patents were generated from NSF-funded research in 2000 to 2009 [2].
- STEM fields are critical to reigniting the economy. In the STEM occupations, job postings outnumbered unemployed people by 1.9 to one [3].
- Since FY 2010 federal research and development funding in real dollars has dropped by 10% [2].

The Benefits of Social, Behavioral, Economic and Political Science Research

- The social sciences are crucial to helping solve many of our nation's most pressing issues including understanding disease spread, disaster preparedness, and efficient use of resources [4].
- Social science research has the potential to significantly reduce crime; social science based interventions can reduce repeat offenses by up to 40% [5].
- The State Department, Homeland Security, Defense Department, and Department of Energy all demand social scientists to support their missions [6].

Funding for the Javits Fellowship and the Arts, Humanities, and Social Sciences

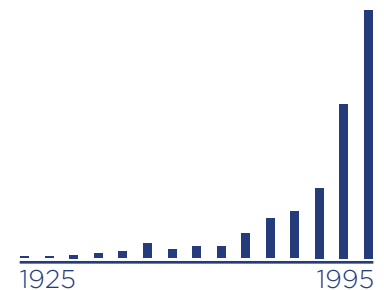
- In 2012, the Javits fellowship program—the only federal fellowship for students in the arts and humanities—was consolidated into the Graduate Assistance in Areas of National Need (GAANN) program, reducing funding by 24% in FY 2012. The 2013 budget eliminated Javits funding for new fellowships.
- The average time to degree for Javits fellowship students is less than their peers [7].

17%

rate at which the U.S. Department of Commerce estimates STEM employment will grow 2008–2018, compared to 9.8% in non-STEM fields [8]

80,000

number of patents generated 2000–2009 from NSF-funded research [2]



The number of patents issued to US universities has increased **exponentially** over the past 70 years. [9]

40%

the amount that social-science based interventions can reduce repeat criminal offenses [5]

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References

- [1] National Science Foundation. 2012. National Science and Engineering Indicators 2012. Available at:
<http://www.nsf.gov/statistics/seind12/c4/c4h.htm>
- [2] American Institute of Biological Sciences. 2011. Available at:
http://www.aibs.org/public-policy/resources/BESC_2011_Leave_Behind.pdf
- [3] Change the Equation. 2013. Vital Signs. Reports on the condition of STEM learning in the U.S. Available at:
<http://changetheequation.org/stemdemand>
- [4] National Science Foundation. 2012. Bringing People Into Focus: How social, behavioral, and economic research addresses national challenges. Available at:
http://www.nsf.gov/about/congress/reports/sbe_research.pdf
- [5] Dvoskin, J.A., Skeem, J.L., Novaco, R.W., Douglas, K.S. 2011. Using Social Science to Reduce Violent Offending: A briefing paper for public policymakers. Available at:
<http://reducingviolence.com/storage/BriefingPaper.pdf>
- [6] Wren, K. 2013. Experts Tout the Benefits of Social Science Research for Government Policy. Available at:
http://www.aaas.org/news/releases/2013/0618_social-science.shtml
- [7] National Humanities Alliance. Javits Fellowship Information. Available at:
<http://www.nhalliance.org/advocacy/funding-priorities/jacob-k-javits-fellowship-program.shtml>
- [8] U.S. Department of Commerce—Economics and Statistics Administration. 2011. STEM: Good Jobs Now and For the Future. Available at:
<http://www.esa.doc.gov/sites/default/files/reports/documents/stemfinaljuly14.pdf>
- [9] Biotechnology Industry Organization. 2009. The Economic Impact of Licensed Commercialized Inventions Originating in University Research, 1996-2007. Available at:
http://www.bio.org/sites/default/files/BIO_final_report_9_3_09_rev_2_0.pdf