

1. Which of the following best describes where you primarily work?

Answer Options	Response Percent	Response Count
Academia	90.7%	3383
Non-academic research institution	3.2%	119
Industry	1.7%	65
Government research	3.1%	114
Other	1.3%	50
<i>answered question</i>		3731
<i>skipped question</i>		0

2. What type of scientific research are you involved in? (choose all that apply)

Answer Options	Response Percent	Response Count
Biology/Biomedical	83.8%	3127
Chemistry	7.9%	295
Computer/Information science	1.6%	60
Economic	0.5%	18
Education	3.1%	116
Engineering	1.3%	50
Geosciences	1.6%	58
Mathematics	4.9%	184
Physics	2.3%	87
Political	0.5%	18
Social/Behavioral	3.3%	123
Other (please specify)	3.9%	146
<i>answered question</i>		3731
<i>skipped question</i>		0

3. Which of the following best describes your position?

Answer Options	Response Percent	Response Count
Student	7.0%	263
Research assistant	1.2%	46
Postdoctoral fellow	9.4%	352
Faculty / Primary Investigator	76.6%	2858
Other	5.7%	212
<i>answered question</i>		3731
<i>skipped question</i>		0

4. Have you received a grant to conduct scientific research since 2010?

Answer Options	Response Percent	Response Count
Yes	59.8%	2232
No	40.2%	1499
<i>answered question</i>		3731
<i>skipped question</i>		0

Yes: Answer questions 5-8.

No: Skip to question 10.

5. Which agencies/organizations have funded your research since 2010?

Answer Options	Response Percent	Response Count
Centers for Disease Control and Prevention (CDC)	0.5%	11
National Aeronautics and Space Administration (NASA)	1.3%	28
National Institutes of Health (NIH)	77.8%	1624
National Oceanic and Atmospheric Administration (NOAA)	0.5%	11
National Science Foundation (NSF)	14.2%	296
Department of Agriculture (USDA)	2.3%	49
Department of Commerce	0.2%	4
Department of Defense (DoD)	7.0%	147
Department of Education	1.3%	28
Department of Energy (DoE)	2.2%	46
Department of Homeland Security (DHS)	0.1%	2
Department of the Interior	0.3%	7
Department of Transportation	0.0%	0
Department of Veterans Affairs	2.6%	55
Environmental Protection Agency (EPA)	0.4%	9
Corporation/Business	4.6%	97
Private Foundation	27.3%	569
Other (please specify)		205
<i>answered question</i>		2087
<i>skipped question</i>		1644

6. Since 2010, has there been a change in the amount of time you spend writing grant applications?

Answer Options	Response Percent	Response Count
The time I spend writing grant applications has increased.	79.5%	1698
The time I spend writing grant applications has not changed.	17.6%	376
The time I spend writing grant applications has decreased.	2.9%	62
<i>answered question</i>		2136
<i>skipped question</i>		1595

7. Since 2010, have you increased the number of agencies/organizations to which you submit grant applications?

Answer Options	Response Percent	Response Count
Yes, budgets are so tight that I need to find funding wherever I can.	71.8%	1529
Yes, but the scientific progress of my research group is the cause for this, not the funding environment.	2.1%	44
No, I submit grants to the same agencies/organizations that I always have.	26.1%	556
<i>answered question</i>		2129
<i>skipped question</i>		1602

8. How has your grant funding level changed since 2010?

Answer Options	Response Percent	Response Count
Increased	10.4%	225
Remained the same	25.3%	548
* Decreased	64.2%	1389
<i>answered question</i>		2162
<i>skipped question</i>		1569

Increased or remained the same: skip to question 10.
Decreased: Go to question 9.

9. Has your research group received support from your institution/organization to make up for lost grants?

Answer Options	Response Percent	Response Count
Yes - My institution/organization has contributed enough to my research group to make up for all lost grants.	2.1%	29
Partially - My institution/organization has contributed some to my research group, but not enough to make up for all lost grants.	38.2%	527
No - My institution/organization has contributed no funds to my research group to make up for lost grants.	57.1%	788
I don't know.	2.7%	37
<i>answered question</i>		1381
<i>skipped question</i>		2350

10. The budgets of federal science agencies have seen minimal growth for several years, thereby increasing the competition for funding. Thinking back to 2010, how has the more competitive funding environment affected you and your science? Please select all that apply:

Answer Options

	Response Percent	Response Count
* I have had difficulty receiving grant funding.	64.2%	2078
I have had a grant application that was unfunded.	50.8%	1645
I have had multiple grant applications that were unfunded.	53.5%	1730
I lost my job.	3.1%	99
I expect to lose my job soon	7.6%	245
** I have a colleague who lost his/her job.	45.0%	1457
** I have a colleague who will lose his/her job in the near future.	35.6%	1153
** I have had to lay off people.	33.2%	1075
** I will have to lay off people soon.	25.6%	828
* I do not have the funds to expand our research operations.	66.9%	2166
I have turned away promising new researchers.	52.8%	1709
My institution/organization has instituted a hiring freeze.	28.2%	914
I have closed my lab/business.	1.5%	50
I am in the process of closing my lab/business.	2.6%	83
I may have to close my lab/business if funding is not secured in the next 12 months.	18.8%	609
I have cut back on buying supplies and equipment.	61.1%	1976
I have decided to remain in my current position instead of looking for a new position elsewhere.	14.7%	475
I have decided to change fields of research.	6.1%	197
I have decided to leave scientific research altogether.	5.8%	189
I am considering continuing my research career in another country.	18.0%	581
The funding environment is more competitive than in the past, but I have not been affected by it.	5.9%	191
I do not find the funding environment to be more competitive than in the past.	1.5%	50
<i>answered question</i>		3236
<i>skipped question</i>		495

11. At your institution/organization, has there been an area of research that has been cut back or discontinued due to the competitive funding environment? How does this affect scientific progress?

Answer Options	Response Count
	1474
<i>answered question</i>	1474
<i>skipped question</i>	2257

12. If funding was abundant, do you believe there are new frontiers in scientific research that we would be exploring that we are not now? What are they?

Answer Options	Response Count
	1650
<i>answered question</i>	1650
<i>skipped question</i>	2081

13. Minimal growth in the federal budgets for science research over the last several years has damaged the American research enterprise.

Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	Response Count
2436	670	66	25	31	3228
<i>answered question</i>					3228
<i>skipped question</i>					503

14. Growth in the federal investments in scientific research is necessary to maintain a vibrant and productive American research enterprise.

Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	Response Count
2725	410	40	16	38	3229
<i>answered question</i>					3229
<i>skipped question</i>					502

15. Reduced federal investments in scientific research over the last several years have allowed competitors to catch up with and even surpass the U.S. as a global leader in scientific research.

Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	Response Count
1769	971	372	79	31	3222
<i>answered question</i>					3222
<i>skipped question</i>					509

16. What concerns you most about the minimal growth in the budgets of federal science agencies?

Answer Options	Response Count
	2271
<i>answered question</i>	2271
<i>skipped question</i>	1460

17. Data collected from this survey will be reported in aggregate to policy makers. However, we are interested in using individual narratives for publicly distributed materials. If you would be willing to participate in follow-up research, please provide your contact information below. If you do not wish to participate in follow-up research, we ask that you enter only your state and zip code. This will keep your responses anonymous while helping us to map the responses and make the information available to the appropriate policy makers. ****Required fields****

Answer Options	Response Percent	Response Count
Name	30.4%	962
Title	29.6%	937
Institution/Organization	30.8%	976
Address	24.2%	766
State	99.7%	3158
Zip Code	99.8%	3160
Telephone	19.9%	631
Email	26.4%	836
Scientific society you received this survey from	38.7%	1224
<i>answered question</i>		3166
<i>skipped question</i>		565

18. Please use the box below to elaborate on any answers you have given or to describe additional ways in which you have been affected by changes in the federal budgets for science agencies since 2010.

Answer Options	Response Count
	699
<i>answered question</i>	699
<i>skipped question</i>	3032

* 3,731 scientists and engineers responded to this survey. Data presented in the report reflect the answers for the 3,165 that finished. The percentages indicated in the report are the same whether analyzing all 3,731 respondents or just the 3,165 that finished. The exceptions were:

- Question 8: 64 percent reported receiving less money now than in 2010 analyzing all respondents vs. 67 percent for those that completed.
- Question 10: 67 percent reported not having the funds to expand research operations analyzing all respondents vs. 68 percent for those that completed.
- Question 10: 64 percent reported having difficulty receiving grant funding analyzing all respondents vs. 65 percent for those that completed.

**On question 10, respondents could select as many answers as were appropriate. To determine the number of respondents that have laid off scientists or expect to soon, we filtered the data to ensure that respondents that checked both boxes were only counted once. The same approach was taken with respondents that have a colleague who has lost a job or expects to soon.

- Laid off scientists or expect to soon: 1444 respondents who completed the survey
- Colleague who has lost a job or expects to soon: 1709 respondents who completed the survey