Coffee with ORPA: National Science Foundation Updates

October 11, 2018

Presenters:
Francine Taylor
Paula Looney
National Science Foundation (NSF)

Mission: "To promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..."

NSF is the only federal agency whose mission includes support for all fields of fundamental science and engineering except for medical sciences.
### NSF 2017 Statistics

<table>
<thead>
<tr>
<th>FY</th>
<th>ORG (Drill to Next Level)</th>
<th>Number of Proposals</th>
<th>Number of Awards</th>
<th>Funding Rate</th>
<th>Average Decision Time (months)</th>
<th>Mean Award Duration (years)</th>
<th>Median Annual Award Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>NSF</td>
<td>49,425</td>
<td>11,457</td>
<td>23%</td>
<td>5.53</td>
<td>2.64</td>
<td>$119,845</td>
</tr>
<tr>
<td></td>
<td>O/D</td>
<td>416</td>
<td>249</td>
<td>60%</td>
<td>5.84</td>
<td>1.82</td>
<td>$5,400</td>
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<tr>
<td></td>
<td>MPS</td>
<td>8,849</td>
<td>2,335</td>
<td>26%</td>
<td>5.82</td>
<td>2.91</td>
<td>$105,000</td>
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<tr>
<td></td>
<td>SBE</td>
<td>4,310</td>
<td>1,031</td>
<td>24%</td>
<td>4.78</td>
<td>2.20</td>
<td>$66,409</td>
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<td></td>
<td>CSE</td>
<td>8,725</td>
<td>1,821</td>
<td>21%</td>
<td>5.47</td>
<td>2.67</td>
<td>$150,000</td>
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<tr>
<td></td>
<td>GEO</td>
<td>4,795</td>
<td>1,522</td>
<td>32%</td>
<td>6.52</td>
<td>2.67</td>
<td>$142,390</td>
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<tr>
<td></td>
<td>ENG</td>
<td>13,027</td>
<td>2,454</td>
<td>19%</td>
<td>5.18</td>
<td>2.37</td>
<td>$116,381</td>
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<tr>
<td></td>
<td>BIO</td>
<td>5,010</td>
<td>1,147</td>
<td>23%</td>
<td>5.71</td>
<td>2.82</td>
<td>$149,043</td>
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<tr>
<td></td>
<td>EHR</td>
<td>4,293</td>
<td>898</td>
<td>21%</td>
<td>5.56</td>
<td>3.19</td>
<td>$184,800</td>
</tr>
</tbody>
</table>

(Award Statistics)
Princeton University NSF STATS

FY 2016

› Number of Proposals: 285
› Number of Awards: 84
› Funding Rate: 29%

FY 2017

› Number of Proposals: 245
› Number of Awards: 86
› Funding Rate: 35%

https://www.nsf.gov/awards/managing/ (Award Statistics)

Office of Research and Project Administration
NSF Electronic Systems

The NSF is using two different electronic systems (FastLane and Research.gov) for processing proposals, notifications, requests and reports.

- As more FastLane features become available in Research.gov, the system features will expand until it replaces FastLane for proposal preparation and submission.

- Single log in for both – NSF ID and password

- New users are able to register directly through Research.gov
Proposal and Award Policies and Procedures Guide (PAPPG) (18-1)

- Contains documents relating to the NSF proposal and award process

- Part 1- Proposal Preparation and Submission Guidelines

- Part 2- Award and Administration Guidelines
PAPPG Significant Changes

- Revises eligibility standards
  - Adds a new subcategory for Institutions of Higher Education
  - Revises the eligibility of foreign organizations
  - Solicitations can add more restrictive language
- Increases the budget justification from three-page limit to five-page limit
- Implements Collaborators and Other Affiliations (COA) template
- Specifies that the Project Description must contain a separate section within the narrative labeled “Intellectual Merit”
PAPPG Significant Changes

Vertebrate Animals and Human Subjects

- Additional IACUC/IRB approval must be obtained if the protocols for the care and use of vertebrate animals and human subjects have changed substantively from those originally proposed and approved.

- Supplements do not require a separate IACUC/IRB approval letter unless the scope of the project has substantively changed.
Award Mechanisms

- **Grants**—Project objectives require minimal NSF involvement during the performance period. The benefit is to the grantee and public.

- **Cooperative Agreements**—Project objectives require substantial ongoing NSF involvement during the performance period. The benefit is to grantee and public.

- **Contracts**—This is a mechanism for procurement of a product or service with specific obligations for both sponsor and recipient. The terms are very restrictive. The benefit is primarily to the sponsor.
NSF Early Career Award

Proposer must be in a tenure-track (or tenure-track-equivalent) assistant professor position as of October 1st following deadline.

CAREER proposals are single-PI projects that include research and education activities.

CAREER proposals require a letter of support from the Department Chair.

Support for senior personnel other than the PI that is commensurate with a limited collaborative role is now allowed in the budget.
Conference and Travel Grants

» NSF supports proposals for conferences, symposia and workshops in special areas of science and engineering. Requests should be made at least a year in advance of the scheduled date.

» NSF supports proposals for travel for U.S. participation in international scientific and engineering meetings held abroad.

» The participant support category of the budget is for the support of participants or trainees only. Speakers and trainers are not considered participants.

» Administration of NSF Conference or Group Travel Grant – Special Conditions (FL 26).
Large Facility Awards

- NSF makes awards for construction, management, and operation of facilities. Such awards frequently take the form of cooperative agreements, but may also be made in the form of contracts.

- The Large Facility Manual–2017 supplements the PAPPG for the purpose of providing detailed guidance regarding NSF management and oversight of facilities projects.
EAGER

- Early-concept Grants for Exploratory Research (EAGER): exploratory work in its early stages

- Research may be considered especially "high risk–high payoff/reward"

- Project descriptions may not exceed 8 pages

- Requests may be up to $300K and with a maximum award duration of two years.
RAPID

- Rapid Response Research (RAPID): proposals for projects with severe urgency, including quick-response research on natural disasters.

- Project descriptions may not exceed 5 pages, with a maximum request of $200K for up to one year, although many are much smaller.
What to look for in a Program Announcement or Solicitation

- Goal of Program
- Eligibility
- Special preparation and/or award requirements
Sample Cover Page of Solicitation

Computer and Network Systems (CNS): Core Programs

PROGRAM SOLICITATION
NSF 18-569

REPLACES DOCUMENT(S):
NSF 17-570

Submission Window Date(s) (due by 5 p.m. submitter's local time):
- September 24, 2018 - October 02, 2018
  LARGE projects
- September 24, 2018 - October 02, 2018
  MEDIUM projects
- November 01, 2018 - November 15, 2018
  SMALL projects
- September 09, 2019 - September 16, 2019
  MEDIUM projects
- September 18, 2019 - September 25, 2019
  LARGE projects
- October 31, 2019 - November 14, 2019
  SMALL projects
Sample Cover Page of Solicitation

Who May Serve as PI:

As of the submission deadline, PIs, co-PIs, or other senior project personnel must hold primary, full-time, paid appointments in research or teaching positions at US-based campuses/offices of organizations eligible to submit to this solicitation (see above), with exceptions granted for family or medical leave, as determined by the submitting institution. Individuals with primary appointments at for-profit, non-academic organizations, or overseas branch campuses of US IHEs are not eligible, even if they also have an appointment at a US campus.

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or Co-PI: 2

In any contiguous September through November period, an individual may participate as PI, co-PI or Senior Personnel in no more than two proposals across all size classes submitted in response to the coordinated solicitations (where coordinated solicitations are defined to include the Computer and Network Systems (CNS): Core Programs, Computing and Communication Foundations (CCF): Core Programs, Information and Intelligent Systems (IIS): Core Programs, and the Office of Advanced Cyberinfrastructure (OAC): Core Programs solicitations). For example, between September 2018 and November 2018, an individual may participate as PI, co-PI or Senior Personnel in one proposal submitted to a core program in CCF and in a second proposal submitted to a core program in CNS, or an individual may participate as PI, co-PI or Senior Personnel in two proposals submitted to an IIS core program, etc.

These eligibility constraints will be strictly enforced in order to treat everyone fairly and consistently. In the event that an individual exceeds this limit, proposals received within the limit will be accepted based on earliest date and time of proposal submission (i.e., the first two proposals received will be accepted and the remainder will be returned without review). No exceptions will be made.

The limit on the number of proposals per PI, co-PI or Senior Personnel applies only to the coordinated solicitations.
# Fastlane Transition to Research.gov

![Old System to New System Diagram](image)

## Proposal Preparation

<table>
<thead>
<tr>
<th>What would you like to work on?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prepare New Proposal</strong></td>
</tr>
<tr>
<td>By answering a few questions, NSF will customize the process and compliance rules.</td>
</tr>
<tr>
<td>What information will need to be provided?</td>
</tr>
<tr>
<td><strong>In Progress Proposals</strong></td>
</tr>
<tr>
<td>Continue working on a previously prepared proposal, that has not yet been submitted to NSF.</td>
</tr>
<tr>
<td><strong>Submitted Proposals</strong></td>
</tr>
<tr>
<td>View, download, or perform a Proposal File Update/Budget Revision on proposals that have previously been submitted to NSF.</td>
</tr>
</tbody>
</table>

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**Attention:** Research.gov’s new proposal preparation system is now available for preparing and submitting full research non-collaborative proposals ([Other system capabilities](#)). NSF welcomes all to give feedback! Proposals prepared in FastLane will continue to be available from FastLane.

**Attention:** As of September 22, 2018, the system supports additional font types and sizes. Please refer to [Research.gov Proposal Preparation Site Document Upload FAQ](#) for full details. You are encouraged to review the information in the FAQ prior to uploading files for your proposals in this application.
Preparing Proposal in Research.gov

<table>
<thead>
<tr>
<th>Select</th>
<th>Funding Opportunity Number</th>
<th>Funding Opportunity Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>o</td>
<td>NSF 18-1</td>
<td>Proposal &amp; Award Policies &amp; Procedures Guide - PAPPG</td>
</tr>
<tr>
<td>o</td>
<td>NSF 19-501</td>
<td>Accelerating Research through International Network-to-Network Collaborations</td>
</tr>
<tr>
<td>o</td>
<td>NSF 19-500</td>
<td>Joint DMS/NLM Initiative on Generalizable Data Science Methods for Biomedical Research</td>
</tr>
</tbody>
</table>
Proposal Details

Are you preparing a collaborative proposal involving multiple organizations? 🔄 What is a collaborative proposal?

- No
- Yes. Proposals will be submitted separately 🔄
- Yes. This proposal will be submitted by one organization and funds as

Proposal Title

0 of 180 characters

Active links take you to the section in the NSF guide

What is a Collaborative Proposal?

NSF supports two kinds of collaborative proposals, which involve investigators from two or more organizations who wish to collaborate on a unified research project. If a proposal includes researchers from a single organization, it is not considered a collaborative proposal.

View PAPPG II.D.3 🔄 for more information.
## Senior Personnel Documents

Expand all | Collapse all

<table>
<thead>
<tr>
<th>Personnel Name</th>
<th>Role</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mollie K Hodge</td>
<td>Principal Investigator</td>
<td>KANSAS STATE UNIVERSITY</td>
</tr>
<tr>
<td>Shiferaw Berhanu</td>
<td>co-Principal Investigator</td>
<td>TEMPLE UNIVERSITY-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documents</th>
<th>Last Updated</th>
<th>Compliance Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biographical Sketch</td>
<td>10/18/2016</td>
<td></td>
</tr>
<tr>
<td>Collaborators &amp; Other Affiliations</td>
<td>10/15/2016</td>
<td>No issues found</td>
</tr>
<tr>
<td>Current &amp; Pending Support</td>
<td>10/22/2016</td>
<td>Error(s)</td>
</tr>
</tbody>
</table>
Why is Intellectual Merit and Broader Impacts so important?

- **Intellectual Merit**: The Intellectual Merit criterion encompasses the potential to advance knowledge.
  
  Reviewers consider what, why and how the researcher plans to proceed with their proposal.

- **Broader Impacts**: The Broader Impacts criterion encompasses the potential to benefit society and contribute to the achievement of specific, desired societal outcomes.
  
  Reviewers also consider what benefits would accrue if the project is successful.
Project Summary

- One page limit

- Project Summary may ONLY be uploaded as a Supplementary Document if use of special characters is necessary

- Project Summaries must be formatted with separate headings for Overview, Intellectual Merit and Broader Impacts
Project Description

General
› Must not exceed the 15-page limitation, or the limit provided in the instructions
› Requires a separate section within the narrative, a section labeled Intellectual Merit and a section labeled Broader Impacts
› Uniform Resource Locators (URLs) are not allowed

Prior NSF Support
› Required for any PI or co-PI identified
› Results related to Intellectual Merit and Broader Impacts are described under two separate, distinct headings
› Limited to five pages of the Project Description
Participant Support Costs

- Stipends or subsistence allowances, travel allowances, and registration fees paid to or on behalf of participants or trainees (not employees) in connection with meetings, conference, symposia or training projects are participant support costs.

- Room rental fees, Audio Visual materials, catering, supplies, etc. related to an NSF-sponsored conference are not participant support costs.

- Awardees must segregate participants support costs in their accounting system.

- Participants support costs are not subject to indirect costs.
Participant Support Costs

➢ It is only allowable to rebudget funds out of the participant support category with prior NSF approval.

➢ You may, however, rebudget funds into this category without prior NSF approval.

➢ Speakers and trainers ARE NOT considered participants and should not be included in this section of the budget.

➢ Human subjects that are being paid as survey takers ARE NOT considered participants.
NSF Cost Sharing Policy

- NSF allows cost sharing only if it is mandated.

- NSF **DOES NOT** allow voluntary cost sharing.

- NSF **DOES** allow voluntary **uncommitted** cost sharing.
  - Not in the budget justification
  - Not quantified in the proposal
  - Allowable in the facilities section, but cannot be quantified
Certain categories of information that are submitted in conjunction with a proposal are for "NSF Use Only – not forwarded to reviewers."

- Authorization to Deviate from NSF Proposal Preparation Requirements
- List of Suggested Reviewers or Reviewers Not to Include
- Proprietary or Privileged Information
- Collaborators & Other Affiliations Information
Supplementary Documents

Special Information and Supplementary Documentation that NSF reviewers see:

- Data Management Plan
- Postdoctoral Mentoring Plan (if applicable)
- Bio sketches of other personnel (if applicable)
- Letters of Collaboration
Letters of Collaboration

Letters of Collaboration should be limited to:

“If the proposal submitted by Dr. X tilted XXXX, is selected for funding by NSF, it is my intent to collaborate and/or commit resources as detailed in the Project Description or the Facilities, Equipment and Other Resources section of the proposal.”

Letters of Support **should not** be included, unless specifically requested.
Submission of a collaborative proposal from multiple organizations

**Lead Organization**
- Cover Sheet
- Project Summary
- Table of Contents
- Project Description
- References Cited
- Bio sketches
- Budget & Justification
- C &P
- Facilities, Equip. and Other Resources
- Data Management
- Post Doc Mentoring Plan
- Collaborators & Other Affiliations Information

**Non-lead Organization**
- Cover Sheet
- Table of Contents
- Bio sketches
- Budget & Justification
- C &P
- Facilities, Equip. and Other Resources
- Collaborators & Other Affiliations Information

*If funded, both lead and non-lead organizations are required to submit separate annual and final project reports.*
Fixed-Price Subawards at Proposal Stage

**NSF PAPPG Implements UG**

- With prior written approval from NSF, Princeton may provide subawards based on fixed amounts up to the Simplified Acquisition Threshold ($250K)
- This is provided that the subawards meet the requirements for fixed amount awards in §200.201

**ORPA Budget Justification Requirement**

- Subaward XXXXX in this proposal meets the criteria described in §200.201. Princeton is therefore requesting prior agency approval of this Fixed Price Subaward
- Princeton will consider the subrecipient’s budget for the entire period of performance approved if an award is made and no contrary guidance from the agency included in the award notice
## Prior Approval Matrix

**Research Terms and Conditions Appendix A**  
**Prior Approval Matrix**  
**October 1, 2017**

<table>
<thead>
<tr>
<th>Prior Written Approval (prior approval)*</th>
<th>Reference</th>
<th>RTC Overlay</th>
<th>NSF</th>
<th>DOE</th>
<th>NIH</th>
<th>USDA</th>
<th>NIFA</th>
<th>DOC</th>
<th>NASA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of grant agreements (including fixed amount awards), cooperative agreements, and contracts</td>
<td>200.497(a)</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
<td>Required</td>
</tr>
<tr>
<td>Use of unearned indirect costs, including indirect costs on cost sharing or matching</td>
<td>200.497(b)</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
</tr>
<tr>
<td>Use of current market value to determine the value of non-Federal entity donations of services and property for the purposes of cost sharing or matching</td>
<td>200.497(c)</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
</tr>
<tr>
<td>Costs of the fair market value of equipment or other capital assets and rent or charges for land when the Federal award supports activities that require use of equipment, buildings, or land</td>
<td>200.497(d)</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
<td>Waived</td>
</tr>
</tbody>
</table>

**Program Income**

- Use of program income during the period of performance (additional method)
- Revision of budget and program plan
- Change in the scope of the objective of the project or program
- Change in P2P/D specified in the application of Federal award
- Disengagement from the project for more than three months, or a 25 percent reduction in time devoted to the project by the approved P2P/D
- Inclusion, unless waived, of costs that require prior approval in accordance with Subject E – Cost Principles
- Transfer of funds budgeted for participant support costs to other categories of expense
- Subawarding, transferring or contracting out any work under a Federal award. This provision does not apply to the acquisition of supplies, material, equipment or general purpose services
- Changes in the approved cost-sharing or matching by the non-Federal entity
- Need for additional Federal funding to complete the project
- Issuer project costs 90 calendar days before the Federal awarding agency makes the award
- Issuer project costs more than 90 calendar days pre-award
- Initiate a one-time extension of the period of performance by up to 12 months
- Carry-forward of unexpended balances to subsequent funding periods
- Transfers made to maintain the approved indirect cost or other increases in direct or indirect costs, or vice versa
- Rebudgeting among direct cost categories for Federal awards in which the cumulative amount of such transfers exceeds or is expected to exceed 10 percent of the approved budget
- Transfer of funds between construction and non-construction activities

**Real Property**

- Encumber real property acquired with Federal funds
- Transfer of title to the Federal awarding agency or to a third party

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Types of Notification and Requests

* Budget Activities *
  - Change in Person-Months Devoted to the Project
  - Pre-award Costs in Excess of 90 Days
  - Reallocation of Funds Provided for Participant Support Costs
  - Rearrangement/Reconversion costs in excess of $25,000
  - Salaries of Administrative or Clerical Staff
  - Travel Costs for Dependents
  - Additional categories of participant support costs other than those described in 2 CFR § 200.75

* No-Cost Extensions *
  - No-Cost Extension

* Changes in Objectives, Scope, or Methodology and other Significant Changes *
  - Significant Changes in Methods/Procedures
  - Significant Changes/Delays or Events of Unusual Interest
  - Changes in Objectives or Scope

* Changes in PI/PD and co-PI/co-PD *
  - Long-Term Disengagement of the PI/PD or co-PI/co-PD
  - Withdrawal of PI/PD or co-PI/co-PD
  - PI/PD or co-PI/co-PD Transfer from One Organization to Another
  - Substitute (Change) PI/PD or co-PI/co-PD

* Other *
  - Conflicts of Interest
  - Annual and Final Cost Share Notification by Recipient
  - Subawarding, Transferring or Contracting Out Part of an NSF Award
  - Other Request
No Cost Extensions

- Cannot have a zero balance
- PI must certify (via the OPAR) that the extension is not merely for the purpose of using unobligated balances and that there is no change in scope
- Initial extension is Grantee approved
  - Due 10 calendar days prior to award end date
- Subsequent extension(s) require additional justification and a plan for the use of the remaining funds
  - Due 45 days prior to award end date
Two-Year Extension for Special Creativity

- Initiated by the NSF Program Officer
- “High-risk” opportunities in the same research area, but not necessarily covered by the original award
- Based on progress during the first two years of the grant
- Can be for time and funding for a period of up to two years
The ultimate limit on how long you can extend a funded project depends on when the dollars expire.

In most instances, funds must be drawn down by the 6th year after the fiscal year of appropriation, otherwise they expire.

Each NSF NOA has an Award date and a Start date.

The appropriation clock starts with the fiscal year of the Award date.

- A 9/25/17 award date is from the FY 17 appropriation, even if the project start date is 10/01.

- For this current FY 2019 (10/01/18–9/30/19) any unspent appropriations from FY 2013 (10/01/12– 09/30/13) will expire by 9/30/19.
Renewal

- Renewed support is additional funding subsequent to that provided by the original grant.
- Renewals are in the form of a new grant with a new grant number.
- Costs incurred under the old grant cannot be transferred to the new grant.
- Residual funds remaining in the old grant cannot be transferred to the new grant.
- If there are funds remaining (and a renewal is pending), consider requesting a NCE on the existing award.
Reporting

▷ NSF requires that all project reports be filed through Research.gov by the PI or Co-PI.

▷ Other project personnel, departmental administrators, and ORPA are not authorized to submit any NSF report on behalf of the PI.
Reporting Due Dates

- **Annual Progress Report** is due no later than 90 days prior to the end of the current budget period.

- **Final Progress Report** is required 90 days after award expiration.

- **Project Outcomes Report** - This is not reviewed or approved by NSF, it is posted publically and is due 90 days after award expiration.

**Consequences of Overdue Reports** – If any reporting requirement is *overdue*, the NSF will not release incremental funds, new awards, or changes to awards for the PI or Co-PIs.
Award Transfers

PI transfers to a new institution

Awards are to Princeton University and not to the individual Principal Investigators.

There are 4 options when a PI transfers (with sponsor approval):

- Transfer the award to the new Institution
- Keep the award at Princeton and appoint a new PI
- Keep the award at Princeton under a new PI and initiate a subaward to the original PI at his/her new institution
- Terminate the award
New Subaward

To request a subaward (post-award), the grantee must submit the following for sponsor approval:

- a clear description of the work to be performed
- a separate budget and budget justification
- biosketch of the new PI
- Postdoc Mentoring Plan (if applicable)
NSF OIG Audit - Update

Contracted Audit Firm:

- NSF OIG hired Kearney & Company (a CPA Firm based in Washington DC) to perform audit

Timeline began:

October 2016 – Received official notification from NSF OIG advising an audit would be performed
Objective:
To determine if costs claimed are allowable, allocable, reasonable, and in conformity with NSF award terms and conditions and applicable federal financial assistance requirements.

Audit Scope & Impact:
› 10/1/2013 – 9/30/2016 for award expenditures
› $170 million expenditures
› 618 awards
› 287 Principal Investigators
› 31 Academic Departments
NSF OIG Audit - *Update*

- Impact of 250 selected transactions
  - 136 awards
  - 105 Principal Investigators
  - 26 academic departments

- July 2018–Kearney provided a list of potential exceptions totaling approximately $610k.
  - Approximately, $600k is related to capital equipment purchases made near the award end date. The University provided a response to defend most of the equipment purchases as being allocable to the impacted award.
NSF OIG Audit - Update

October 2018 - Waiting to hear from Kearney on the next steps which may include:

› Respond to any remaining questions
› Await Kearney’s draft report for discussion
› Final Draft Audit Report (includes Princeton’s formal responses to findings)
› Final Audit Report (includes Kearney’s responses to Princeton)
Questions?