



National Science Foundation
WHERE DISCOVERIES BEGIN

NSF GRANTS CONFERENCE

NSF PAYMENTS AND ANALYTICS BRANCH – POST AWARD FINANCIAL PROCESSES

FALL CONFERENCE | NOVEMBER 2022



PAB

PAYMENTS AND ANALYTICS BRANCH

BUDGET, FINANCE AND AWARDS MANAGEMENT | DIVISION OF FINANCIAL MANAGEMENT



INTRODUCTIONS



Justin Poll





AGENDA

- 1 General Information/Frequent Questions
- 2 Impacts of Cancelling Appropriations
- 3 Reporting Updates/System Enhancements
- 4 Innovating in a Government Environment



General Information/Frequent Questions



PAYMENTS AND ANALYTICS BRANCH (PAB)

PAB falls within the Division of Financial Management at NSF.

Our branch supports the NSF mission by leading comprehensive post-award grant and commercial financial processes, including:

- Payment Operations,
- Financial Analytics,
- Monitoring and Compliance, and
- Stakeholder Outreach.





AWARD CASH MANAGEMENT SERVICE (ACM\$)

The **Award Cash Management Service (ACM\$)** is NSF's approach to award payments and post-award financial processes. This approach requires the submission of award level payment amounts each time funds are requested.

Since inception in April 2013, ACM\$ has provided service to over **2,500 institutions, small businesses, and individuals.**





FREQUENTLY ASKED QUESTIONS

National Science Foundation
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PAYMENTS AND ANALYTICS BRANCH
OFFICE OF BUDGET, FINANCE, AND AWARD MANAGEMENT | DIVISION OF FINANCIAL MANAGEMENT

GRANT

FAQ

AWARD CASH MANAGEMENT SERVICE (ACMS)

1
What is the Award Cash Management Service (ACMS)?

ACMS is NSF's system for awardees to manage award payment and post-award financial processes. The system allows users to submit cash requests and adjustments to open and closed awards on a grant by grant basis. Additionally, users have timely access to award level information on payments and award balances improving reconciliations and award monitoring.

2
How do I request funds on my award?

The majority of awardees must submit their payment request through the NSF Award Cash Management Service (ACMS) at: www.research.gov

Once a user has accessed ACMS, a request may be submitted by selecting "Submit New Transaction" and identifying the "Payment Date Requested". A user may select from the available open awards on the first tab called "Step 1. Payments" or from available financially closed awards on the second tab called "Step 2. Adjustments". All transactions must be certified by an authorized official on the third tab called "Step 3. Review". Navigate between the tabs by clicking on the tab label. NSF will not process a transaction until it has been certified and submitted. A transaction with a status of "Draft" or "Awaiting Certification" will not be processed.

Additional instructions and user guides can be found on the ACMS information webpage at:
https://www.research.gov/research-portal/appmanager/base/desktop?_nfpb=true&_pageLabel=research_node_display&_nodePath=researchGov/Service/Desktop/AwardCashManagementService.html

3
Is my organization required to submit a quarterly FFR or are there any additional financial reporting requirements for my NSF award?

With the implementation of ACMS, NSF eliminated the requirement for organizations to submit quarterly Federal Financial Reports (FFR). The FFR was considered to collect duplicate information since expense data for each award is collected with the submission of ACMS payment transactions.

Program income reports for NSF are collected annually instead of quarterly via an FFR submission. For more information, please see the Program Income Reporting section of this FAQ.

Cost Share reports are collected through the submission of a Notification to the Program Office via FastLane. For more information, please see the About Notifications and Requests on Research.gov:
https://www.research.gov/research-portal/appmanager/base/desktop?_nfpb=true&_pageLabel=research_node_display&_nodePath=researchGov/Service/Desktop/NotificationRequest.html

Grant FAQ — Award Cash Management Service (ACMS) | 1

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PAYMENTS AND ANALYTICS BRANCH

Office of Budget, Finance, and Award Management (BFA)
Division of Financial Management (DFM)

2415 Eisenhower Avenue, Alexandria, VA 22314
703.292.8280 | www.nsf.gov/bfa/dfm

National Science Foundation
WHERE DISCOVERIES BEGIN

Grant FAQ | April 2021

► 16 pages of the most common questions

► **Download from our website:**

<https://www.nsf.gov/bfa/dfm/cmeab.jsp>

► **Direct link:**

https://www.nsf.gov/bfa/dfm/docs/DFM_PABGrantFAQ.pdf

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PAYMENTS AND ANALYTICS BRANCH

BUDGET, FINANCE AND AWARDS MANAGEMENT | DIVISION OF FINANCIAL MANAGEMENT





NSF GRANT PAYMENT PROCESS

NSF Grantees

Submit and certify
ACM\$
Transactions



NSF

Reviews
transactions and
transmits payment
schedules



Dept. of Treasury

Disburses funds to
NSF grantees

+1 Business Day

+1 Business Day





COMMON ISSUES IN NSF GRANT PAYMENTS

WHY IS MY PAYMENT DELAYED?

- ▶ Unnecessary NSF Remarks
- ▶ Expired SAM Registrations

WHY DID I RECEIVE LESS MONEY THAN REQUESTED?

- ▶ Partially Accepted Transactions





DELAYS IN RECEIVING PAYMENT

- ▶ Remarks vs Internal Comments
 - ▶ Only use “Remarks” for items you wish to communicate to NSF
 - ▶ Utilize “Internal Comments” for any notes you wish to leave to help your organization identify the purpose of the transaction

The screenshot displays the SAM.gov homepage. At the top, there's a navigation bar with links: HOME, SEARCH RECORDS, DATA ACCESS, CHECK STATUS, ABOUT, and HELP. Below this, a section titled 'Getting Started' offers three main actions: 'Create A User Account' (with a person icon), 'Register Entity' (with a folder icon), and 'Search Records' (with a magnifying glass icon). Each action has a brief description and a 'Log In' button. The footer contains the GSA logo, version information (IBM v1.P.64.2017/0330-1550 WWW8), and a list of links including Search Records, Data Access, Check Status, About, Help, Disclaimers, Accessibility, Privacy Policy, FAPIIS.gov, GSA.gov/IAE, GSA.gov, and USA.gov.



REDUCTION IN PAYMENTS RECEIVED

PARTIALLY ACCEPTED TRANSACTIONS

Review your payment request in ACM\$ for error messages and additional award details.

EXAMPLE:

University requested a payment involving 5 awards for a total of \$125,000, however the payment that was received 2 days later was for \$120,000.

Payment request was partially accepted when the interface for 1 of the awards failed to create an invoice against the PO in NSF's financial system. Payment for the remaining 4 awards was processed and a partial payment was sent.





TREASURY OFFSET PROGRAM (TOPS) UPDATE

In FY 2022, NSF requested that its award payments related to financial assistance awards (i.e., grants and cooperative agreements) be exempted from TOPS offsets.

- NSF received approval from the Department of Treasury.
- NSF and Treasury worked to implement the exemption in August.
- Future award related payments will no longer be impacted by TOPS offsets.





ADJUSTMENT VS REQUEST TO REOPEN AWARD

Your organization recently received a late supplier/sub-recipient invoice for costs incurred during the award project period, however after logging into ACM\$ you find the award has been financially closed. Which answer best applies to this scenario:

- A. In order to receive reimbursement for this expense, you must send a **request to** your Division of Grants and Agreements grant official to **re-open and extend the award**.
- B. In order to receive reimbursement for this expense, you must **submit an adjustment via ACM\$**, provide a justification for the adjustment and maintain appropriate supporting documentation in the event this expenses is audited or selected for additional advanced monitoring.





ADJUSTMENT VS REQUEST TO REOPEN AWARD

Adjustments to financially closed awards are permitted when reimbursement for expenses incurred during the award project period are required. A request to re-open and extend the award is only required when new spending is required.

Step 1. Payments

Step 2. Adjustments

Step 3. Review

Justification

Validate Awards

Remove Selected

Filter: * Thresholds applied ** Payment outstanding [Clear Filter](#)

	Federal Award ID	Financial Closed Date	Previous Cumulative Cash Disbursement	Balance Available for Upward Adjustment	Balance Available for Downward Adjustment	Adjustment Eligibility Status	Adjustment Requested
<input type="checkbox"/>	<input type="text"/>						



LIMITATIONS FOR ADJUSTMENTS TO CLOSED AWARDS

- ▶ Transaction total must be greater or equal to \$0
- ▶ Individual award request must be greater or equal to \pm \$1
- ▶ Upward adjustments (a.k.a. – additional payments) available for 14 months after the award is financially closed
- ▶ Downward adjustments (a.k.a. – returns or refunds) available until the funding appropriation cancels
- ▶ Exception to this timeline is when canceling appropriations are involved





NSF REMITTANCE PROCESSING

HOW DO I RETURN FUNDS TO NSF?

1. ACM\$ Credit/Offset ★

Preferred Electronic Methods

2. Pay.gov (ACH Debit) ★

3. Check





NSF REMITTANCE PROCESSING - PAY.GOV REMINDERS



1. ACM\$ Credit/Offset

2. **Pay.gov (ACH Debit)**

3. Check

- ▶ For first time Pay.gov users returning funds using a bank account, we recommend reaching out to your banking institution to ensure NSF is a valid entity to make ACH debits to the account.
- ▶ NSF's identification number for your bank is "**National Science Foundation ALC: 49000001**". If your bank requires a 10-digit version, please use "**4900000101**" instead.





WHAT ABOUT MORE TIME? NO COST EXTENSIONS

- ▶ Awards with \$0 balances cannot be extended.
- ▶ Awards cannot be extended just to use up remaining funds.
- ▶ Submit Grantee-Approved NCEs at least 10 days prior to the award end date.
- ▶ Submit the NSF-Approved NCEs at least 45 days prior to the award end date.
- ▶ NSF-Approved NCE's may be submitted "late," but you will need to explain why.
- ▶ NCEs and canceling appropriations:
 - ▶ Research.gov will block submission of a NCE if the revised end date extends the award beyond the appropriation cancelation date of all funds on the award.
 - ▶ Most NSF funds have a limited period of availability for expenditure.
 - ▶ NSF will notify grantees of any canceling appropriations on open awards so grantees may properly and responsibly expend and drawdown funds before they cancel at the end of the fiscal year.



Impacts of Cancelling Appropriations



APPROPRIATED FUNDS

Why does this matter to you?

NSF is an independent federal agency bound by Fiscal Law

NSF operates on annual appropriations

Golden Rules of Fiscal Law: Purpose, Time, and Amount





CANCELING APPROPRIATIONS

- ▶ Each fiscal year end, millions of dollars of obligated funds must be deobligated
- ▶ Federal appropriations cancel five years after their period of availability.
 - ▶ Public Law 101-510: States Federal agencies must financially close fixed year appropriation accounts and cancel any remaining balances by September 30th of the 5th year after the period of availability.

FY	2017	2018	2019	2020	2021	2022	2023	2024
Availability	Open	Open	Expired	Expired	Expired	Expired	Expired	Canceled

- ▶ **AFTER SEPTEMBER 30th, NEITHER THE AWARDEE OR NSF CAN ACCESS ANY REMAINING FUNDS**





AWARDS WITH CANCELING FUNDS IN ACM\$

Federal Award ID	Recipient Account Number	PI/PD Name	From	To	Total Federal Funds Authorized	Previous Cumulative Cash Disbursement	Net Available Funds	Payment Amount Requested	Expected Close Date	Final Flag
0939454							\$135,551.50	\$11,426.22	11/28/2022	No
 1340048							\$1,130,785.45	\$1,092.84	01/28/2024	No
1430152							\$441,989.79	\$19,115.88	06/28/2023	No
1432563							\$116,308.49	\$41,464.44	04/30/2023	No
 1443165							\$104,698.44	\$1,421.71	11/28/2022	No
1452479							\$8,154.43	\$5,496.04	12/29/2022	No
1546617							\$160,984.08	\$14,443.29	11/28/2022	No





CANCELING APPROPRIATIONS CRITICAL DATE

- ▶ ACM\$ (NSF's Automated Grant Payment System) is closing **Monday September 25, 2023 at 2:00 PM EDT.**
 - ▶ After this date (for awards with canceling funds):
 - ▶ no adjustments
 - ▶ no extensions
- ▶ NSF will continue to reach out to awardees who have canceling funds throughout FY 2023.





CANCELING APPROPRIATIONS

Edit Notification/Request

Grantee-Approved No-Cost Extension

[← Back to Notifications & Requests Home](#)

ⓘ Appropriated Funds have expired for this award. No Notification/Request can be submitted for this award.

Award Number:

Award Title:

End Date:

11/30/2016

Status:

Forwarded to AOR

ⓘ Reminder: This one time extension may not be exercised merely for the purpose of using the unliquidated balances.

Required

Revised End Date:

11/30/2017

▼

(Always expires on the last day of the month)

Justification for Grantee-Approved No-Cost Extension:

Characters remaining: 978 (out of 1200 max)



HYPOTHETICAL SCENARIO – TRUE OR FALSE?

University is managing award 1712334 with initial funds obligated in FY2017 (FY2017/2018 appropriation)

Subsequent funding was received in FY2020.

University receives a no-cost extension for the award that extends the period of performance of the award from May 31, 2023 to May 31, 2024.

During the spring of 2023, the University receives a letter from the NSF Payments and Analytics Branch, Payments and Outreach Section notifying the University that the award (1712334) has canceling funds, which will cancel on September 30, 2023.

True or False:

The University can ignore the canceling funds email. The Payments and Analytics Branch must have made a mistake in sending this notice.





HYPOTHETICAL SCENARIO – TRUE OR FALSE?

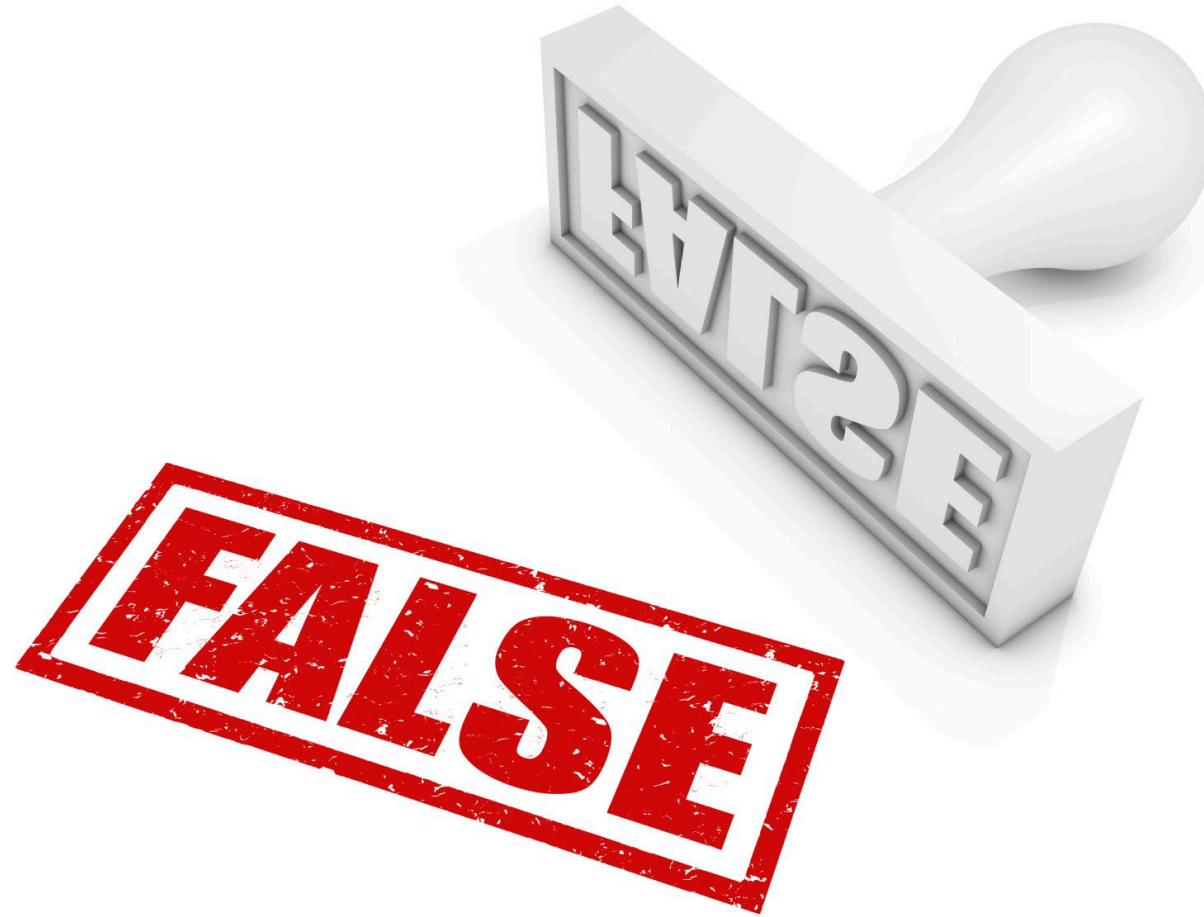
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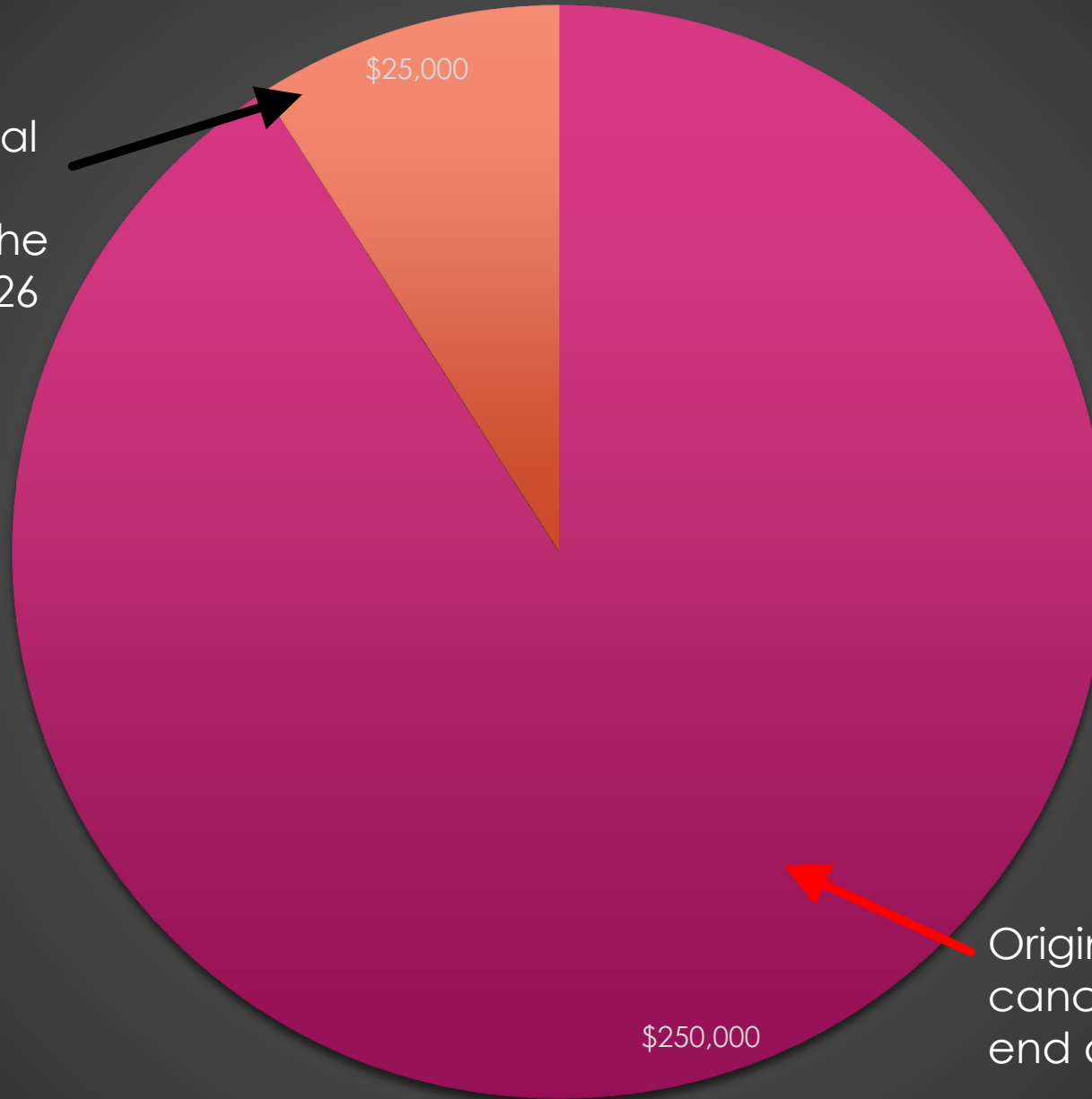
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Award Example

Supplemental
funding
cancels at the
end of FY2026



■ FY 2017 ■ FY 2020

Original funding
cancels at the
end of FY 2023



APPROPRIATION LIFE CYCLE

Appropriation	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
FY17/18 Research	1	2	1	2	3	4	5			
FY20/21 Research				1	2	1	2	3	4	5



Budget Authority **AVAILABLE** (allowed to make new obligations)



Budget Authority **EXPIRED** (allowed to adjust or liquidate existing obligations – NO NEW OBLIGATIONS)



Budget Authority **CANCELLED** (NO OBLIGATIONS OR OUTLAYS/EXPENSES)





ADVANCED PAYMENT OF CANCELING FUNDS

University was granted a No-Cost Extension to May 31, 2024 for an award involving canceling funds. There is \$100,000 available on the award, with \$50,000 canceling September 30, 2023. The University estimates \$30,000 of the canceling funding will be spent by the end of September 2023 and would like to request advanced payment of the canceling funds prior to the ACM\$ shutdown period. How much should their advance payment be for?

- A. **\$0** – advance payments are not permitted
- B. **\$30,000** – advance payment should be limited to the expected expenditures
- C. **\$50,000** – advance payment should include all of the canceling funding so the PI can continue to spend the remaining \$20,000 after September 2023 since the new award end date is 05/31/2024



Reporting Updates/System Enhancements



ACCESSING NSF'S SYSTEMS – NSF USER ID

After 20 years, Bob is retiring. He has been your organization's primary point of contact and expert for managing NSF awards and this responsibility will now be transitioning to you. You need to request a payment using ACM\$, however your management has not established a NSF user ID with ACM\$ permission in your name. What should you do?

True or False:

I can continue using Bob's NSF user ID and password to access NSF's systems because he left me a post-it note with that information. There is no need to bother anyone else with such a trivial request.





ACCESSING NSF'S SYSTEMS – NSF USER ID

After 20 years, Bob is retiring. He has been your organization's primary point of contact and expert for managing NSF awards and this responsibility will now be transitioning to you. You need to request a payment using ACM\$, however your management has not established a NSF user ID with ACM\$ permission in your name. What should you do?

FALSE

True or False:

I can continue using Bob's NSF user ID and password to access NSF's systems because he left me a post-it note with that information. There is no need to bother anyone else with such a trivial request.





ACCESSING NSF'S SYSTEMS – NSF USER ID

- ▶ Each user is required to have a unique ID
- ▶ Never share ID and/or password
- ▶ Only one account per user
- ▶ Group user accounts and passwords are not permitted

FALSE





PROGRAM INCOME

- ▶ NSF requires an annual submission of a Program Income worksheet for any active awards within the federal fiscal year
 - ▶ Most recent submission was for FY21
- ▶ Submission is typically due by November 14 each year
- ▶ Visit our website for last year's Program Income webinar:
<https://www.nsf.gov/bfa/dfm/cmeab.jsp>





PROGRAM INCOME

- ▶ Program income is gross income earned by the awardee organization that is directly generated by a supported activity or earned as a result of NSF-funding during the period of performance.
 - ▶ This would include things such as fees for services performed, the use or rental of real property acquired under the grant, the sale of commodities or items fabricated under the grant, and fees charged to register participants for a workshop or conference.
 - ▶ Interest earned on advances of Federal funds is not program income.





NSF TREATMENT OF PROGRAM INCOME

- ▶ Standard treatment of program income is “Additive” unless otherwise specified in the grant
(Grant General Conditions: GC-1 27.b.1 and Research Terms and Conditions 200.307)
 - ▶ Additive = income earned is to be retained by the grantee and added to the funds committed to the project by NSF, and thus used to further project objectives
 - ▶ Efforts should be made to avoid having excess program income at the end of the project. In general, program income should be expended prior to requesting reimbursement against the grant
- ▶ Special treatment may be added to Notice of Award
 - ▶ Deductive = must be remitted to NSF by crediting costs otherwise chargeable against the grant
 - ▶ Example: FL-26 (1/16 and beyond) Administration of NSF Conference or Group Travel Award Grant Conditions





ANNUAL CASH ON HAND VALIDATION

We randomly sampled 508 institutions and achieved a 94% response rate

Email notices were sent out from nsfaccrual@nsf.gov

We requested that you report the difference between your award expenses against the NSF payments received as of our fiscal year-end, September 30, 2021

Our statistical validation yielded a negative \$461 million cash on hand balance, which was within 3.8% of our calculation





YOUR ROLE IN ANNUAL CASH ON HAND VALIDATION

The survey sent from nsfaccrual@nsf.gov asks grantees to provide:

- Did award expenses equal ACM\$ drawdowns as of 9/30?
 - If not, note the amount of positive or negative (not yet drawn from NSF) cash on hand **as of 9/30**.
- Submission **must** include the **name** and **position** of the party responsible for the information and the **date of submission** to NSF.





CASH ON HAND VALIDATION – FFR VISUALIZATION

FEDERAL FINANCIAL REPORT

(Follow form instructions)

1. Federal Agency and Organizational Element to Which Report is Submitted		2. Federal Grant or Other Identifying Number Assigned by Federal Agency (To report multiple grants, use FFR Attachment)		Page 1	of pages
3. Recipient Organization (Name and complete address including Zip code)					
4a. DUNS Number	4b. EIN	5. Recipient Account Number or Identifying Number (To report multiple grants, use FFR Attachment)		6. Report Type <input type="radio"/> Quarterly <input type="radio"/> Semi-Annual <input type="radio"/> Annual <input type="radio"/> Final	7. Basis of Accounting <input checked="" type="radio"/> Cash <input type="radio"/> Accrual
8. Project/Grant Period From: (Month, Day, Year)		To: (Month, Day, Year)		9. Reporting Period End Date (Month, Day, Year)	
10. Transactions					Cumulative
(Use lines a-c for single or multiple grant reporting)					
Federal Cash (To report multiple grants, also use FFR Attachment):					
a. Cash Receipts					
b. Cash Disbursements					
c. Cash on Hand (line a minus b)					

Overdue Project Reports and FAPIIS



- The *Uniform Guidance* now requires Federal awarding agencies to post overdue project reports at the time of award closeout to a **PUBLIC-FACING** repository of **POOR PERFORMERS** – the Federal Awardee Performance Information and Integrity System (**FAPIIS**).
- No one wants to go into FAPIIS. **DON'T WAIT UNTIL IT'S TOO LATE.**
- Click **here** to learn more about the project reporting module on Research.gov and see the current status of your reports.

New Uniform Guidance Requirement

- 2 CFR 200.344 Closeout
 - Published in Federal Register August 13, 2020
 - (i) If the non-Federal entity does not submit all reports in accordance with this section within one year of the period of performance end date, the Federal awarding agency must report the non-Federal entity's material failure to comply with the terms and conditions of the award with the OMB-designated integrity and performance system (currently FAPIIS). Federal awarding agencies may also pursue other enforcement actions per § 200.339.



INDIVIDUAL BANK DATA COLLECTION MODERNIZATION

- ▶ NSF is modernizing the collection of banking information for external individual recipients, such as post-doctoral fellowship and honorary award recipients, invitational travelers, and other miscellaneous payees.
- ▶ Does not change the process for organizations registered via SAM.gov. These organizations will continue to update their organization's SAM profile in order to update their banking data.

The screenshot displays the NSF Research.gov user interface. At the top, there is a navigation bar with five main sections: 'My Desktop', 'Proposals', 'Awards & Reporting', 'Manage Financials', and 'Administration'. The 'Manage Financials' section is currently active and expanded, showing a list of options: 'ACM\$ (Award Cash Management Service)', 'Program Income Reporting', 'Individual Banking', and 'Financial Functions'. The 'Individual Banking' option is highlighted in orange. A callout box with the text 'Link to Individual Banking' points to this option. On the left side of the interface, there is a 'My Desktop' section containing three notifications: 'New Research.gov proposal functionality (Postdoctoral Fellowship proposal type, Project Data Form and more) now available, plus ability for...', 'GRFP 2022 Fellow Candidates and Honorable Mentions Announced. Click [here](#) to learn more.', and 'CAREER Proposers and Research Administrators: CAREER Proposal Submission Logistics Webinar on May 26th on system-related info registration link.' Below these notifications is a link to 'Hide all notifications' and a status '(Viewing 3 of 3 notifications)'. A large orange arrow points from the right towards the 'Individual Banking' option in the menu.



INDIVIDUAL BANK DATA COLLECTION MODERNIZATION

My Desktop	Proposals	Awards & Reporting	Manage Financials	Administration
------------	-----------	--------------------	-------------------	----------------

My Desktop	Proposals	Awards & Reporting	Manage Financials	Administration
------------	-----------	--------------------	-------------------	----------------

My Desktop › Individual Banking

Error: Restricted Page

Individual Banking is only for those users who have received notice from NSF through email to update their banking information on Research.gov. If you have not received a notice, NSF does not need your Individual Banking Information at this time.

If you have received a notice to update your banking information and receive this error message, please contact the NSF IT Help Desk at 1 (800) 381-1532 or send an e-mail to rgov@nsf.gov.

For organizations registered in the System for Award Management (SAM), updates to banking data must be made in the organization's SAM profile in order to update the banking data NSF has on file for the organization. For more information, please visit <https://sam.gov/>.



Innovating in a Government Environment



TECHNOLOGY-ENABLED GRANTS MONITORING

Objectives

- ✓ **Optimize** resource allocation
- ✓ **Uncover** hidden insights in data
- ✓ **Encourage** continuous improvement

Practical Applications

- **Payment Processing** (Blockchain/DLT)
- **Operational Analytics** (Data Visualization)
- **Oversight** (Natural Language Processing)





Final Unliquidated Balances of Concern

PAB sends out email notifications if your awards are within 3 months of expiring and have 75% or greater balances remaining

- ▶ Are there issues?
- ▶ Is an extension needed?
- ▶ Encourage PIs to reach out to their NSF Program or Grants Official





TABLEAU ANALYTICS ON EXPIRING NSF AWARDS



Payments and Analytics Branch
Burn Rate Explorer

Institution Name

(All)

Institution Type

(All)

Directorate

(All)

Division

(All)

Program Officer

(All)

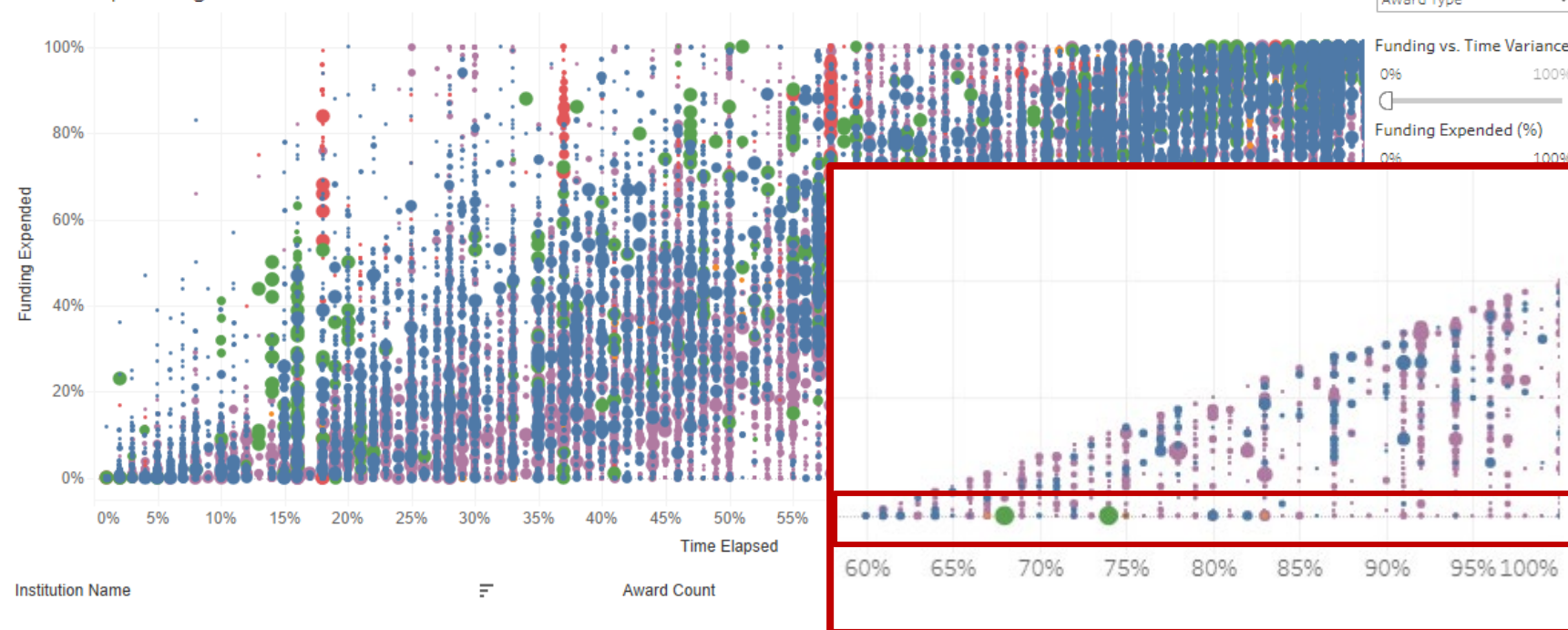
Unliquidated Balances by Directorate

EHR	MPS	CISE	GEO	ENG	BIO	SBE	O/D	NNCO	BFA	Total
\$2,408.3M	\$2,335.4M	\$2,108.2M	\$1,916.1M	\$1,665.6M	\$1,490.5M	\$471.7M	\$346.5M	\$0.4M	\$0.4M	\$12,742.9M

Award Count

45,510

Award Spending vs. Period of Performance



Institution Name

≡

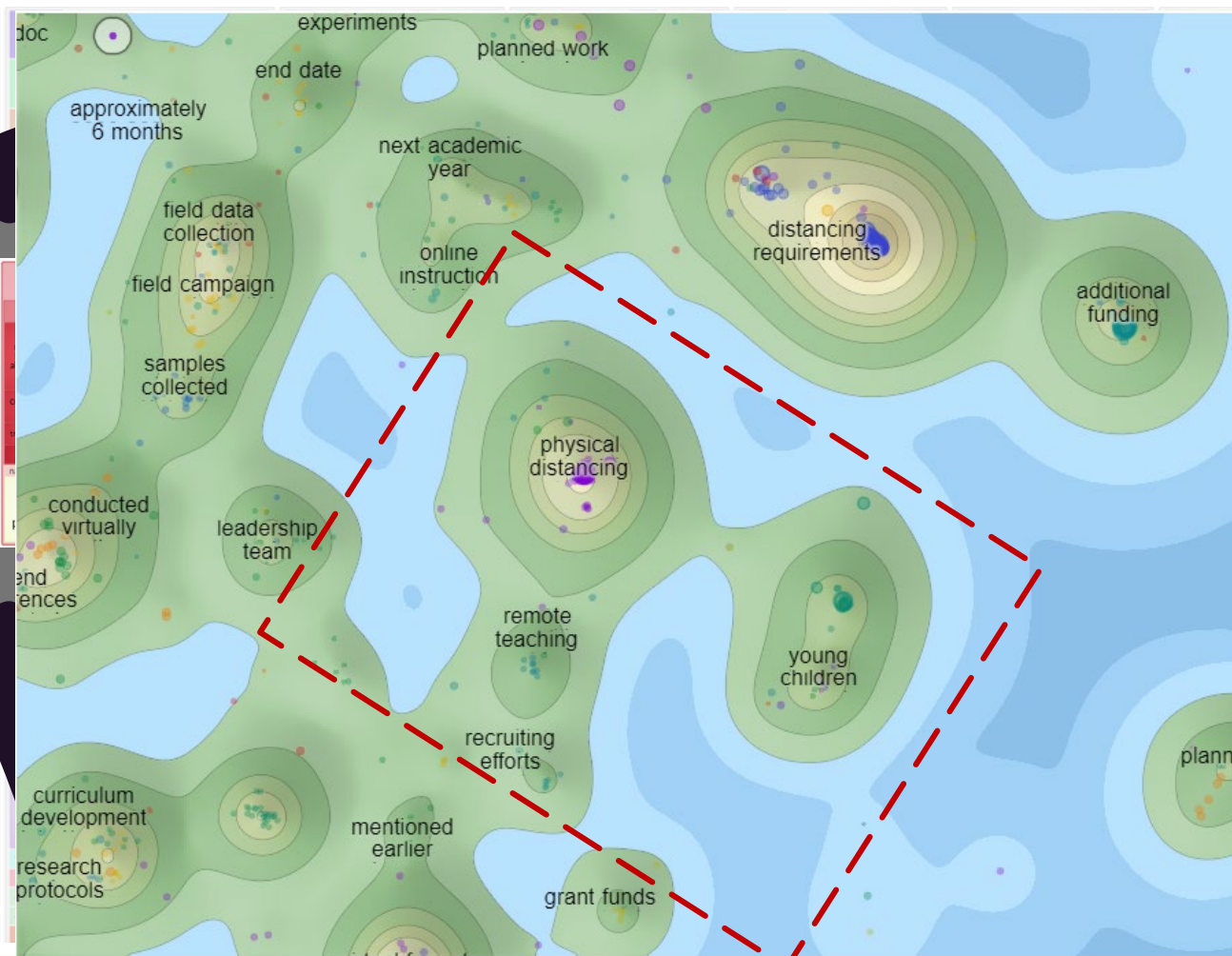
Award Count

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PAYMENTS AND ANALYTICS BRANCH

BUDGET, FINANCE AND AWARDS MANAGEMENT | DIVISION OF FINANCIAL MANAGEMENT







OPPORTUNITIES FOR FUTURE ENGAGEMENT



- ✓ Electronic Remittance Pilot
- ✓ Grant Financial Soft Monitoring
- ✓ FY 2022 Grants FAQ **Now AVAILABLE!**





QUESTIONS???

- ▶ PAB Website and Branch Contacts
www.nsf.gov/bfa/dfm/cmeab.jsp
- ▶ Career Opportunities | National Science Foundation
<https://beta.nsf.gov/careers>

