What is your research number?

Fiscal Year 2021

$$ in thousands

TAMU AFR: 224.9
Campus AFR: 965.3
Campus AFR w/RF: 1,027.9
System CB: 1,303.2
THECB: 953.6
THECB w/HSC w/TAMUG: 1,201.6
NSF: 1,147.7
## Research Numbers

*If all reports are correct, how do they reconcile to each other?*

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
<th>Column 6</th>
<th>Column 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAMU AFR</td>
<td>TAMU &amp; Research Agency AFRs</td>
<td>TAMU &amp; Research Agency AFRs Plus Non-Salary RF AFR</td>
<td>SYSTEM</td>
<td>THECB</td>
<td>THECB w/TAMUG and W/HSC</td>
<td>NSF</td>
</tr>
<tr>
<td>Includes all TAMU contracts, Salary &amp; Wages on contracts administered by the RF for TAMU, TAMU Appropriated Research centers, ATP, ARP, TAMU cost sharing &amp; Institutional Matching etc. Does not include indirect costs or capital equipment.</td>
<td>Includes Column 1 plus all Agency AFRs including TAMU faculty grants thru the research agencies, Appropriated research, ATP, ARP, Matching and Agency contracts, Agency Salary &amp; Wages on Contracts Administered by the RF, etc</td>
<td>Includes Column 2 plus the a portion of the RF's AFR for non-salary contract expenditures</td>
<td>Includes Column 3 less TEES Regional Divisions for work at other academic institutions. Shows amounts reported to THECB for annual Sources &amp; Uses report.</td>
<td>Includes Column 5</td>
<td>Includes Column 5 Plus Waived IDC/Cost Sharing</td>
<td></td>
</tr>
</tbody>
</table>
National Science Foundation
HERD Survey (Higher Education R&D)

- Annual survey due at end of January
- Survey shows national ranking of institutions – In FY2020, 915 institutions ranked with annual expenditures ranging from $150K to $3,110,494K ($ in thousands)
- Survey includes all sources of R&D (not just NSF grants).
- All TAMUS members should participate in survey, either long form or short form. Short form allowed when institution has less than $1M.
- NSF HERD Survey amounts are used by System Office when presenting annual research expenditures for the Board of Regents.
National Science Foundation
HERD Survey (Higher Education R&D)

- TAMU was in Top 20 from 2008-2010.
- TAMU is currently # 14 (FY 2020 data)
- FY 2013 – Began including HSC, TAMUG with TAMU and agencies
- NSF announces rankings in fall, usually in November
- Maestro has programmed NSF HERD Survey.
What is R&D? (UG 2 CFR Part 200 § 200.1 Definitions)

- **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied.

- **Development** is systematic use of knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods including design and development of prototypes and processes.

- Includes the training of individuals in research techniques where activities utilize the same facilities as other research and development activities.
What to include?

- Externally sponsored research projects (SRS or Member)
- Cost sharing for sponsored research projects – Use CSOR effort code
- Research equipment (but not buildings)
- Gift funds used for research purposes/projects
- Start up, bridge, or seed funds for faculty
- Research incentive funds (indirect cost)
- Other departmental funds designated for research
- Internally funded grant programs
- Tuition and fees for students working on research projects (external or internal)
- NSF report also includes unrecovered IDC, tuition waivers for grad students working on research.
NSF HERD Questions

• Survey is 16 questions, unless using Short Form survey (5 questions)
• NSF estimates is should take about 64 hours to complete survey! (12 entities for TAMU Hybrid).
• Report expenditures by sources and fields of science (federal, state, business, non profit, institutional, other universities)
• Foreign expenditures
• Contract versus grant expenditures
• Medical school expenditures
• Clinical trials expenditures (human)
• Basic, applied, or development research expenditures
• Sub-recipient dollars – received and paid
• By type of cost – salaries, wages, fringes, equipment, pass throughs, other direct costs, indirect, unrecovered IDC
• Research equipment – federal, non-federal by fields of science
• Headcount of personnel by PI, R&D technicians, R&D support staff, by sex, by citizenship, level of education
• Full-time equivalent for researchers, R&D technicians, R&D support staff
### Basic, applied, or development research expenditures

<table>
<thead>
<tr>
<th>Basic research (4A)</th>
<th>Applied research (4B)</th>
<th>Experimental development (4C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A researcher is studying the properties of human blood to determine what affects coagulation.</td>
<td>A researcher is conducting research on how a new chicken pox vaccine affects blood coagulation.</td>
<td>A researcher is conducting clinical trials to test a newly developed chicken pox vaccine for young children.</td>
</tr>
<tr>
<td>A researcher is studying the properties of molecules under various heat and cold conditions.</td>
<td>A researcher is investigating the properties of particular substances under various heat and cold conditions with the objective of finding longer-lasting components for highway pavement.</td>
<td>A researcher is working with state transportation officials to conduct tests of a newly developed highway pavement under various types of heat and cold conditions.</td>
</tr>
<tr>
<td>A researcher is investigating the effect of different types of manipulatives on the way first graders learn mathematical strategy by changing manipulatives and then measuring what students have learned through standardized instruments.</td>
<td>A researcher is studying the implementation of a specific math curriculum to determine what teachers needed to know to implement the curriculum successfully.</td>
<td>A researcher is developing and testing software and support tools, based on fieldwork, to improve mathematics cognition for student special...</td>
</tr>
<tr>
<td>Texas A&amp;M System Member</td>
<td>2021</td>
<td>2020</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Texas A&amp;M University &amp; Agencies</td>
<td>1,147,719</td>
<td>1,130,803</td>
</tr>
<tr>
<td>Texas A&amp;M University-Corpus Christi</td>
<td>30,500</td>
<td>32,284</td>
</tr>
<tr>
<td>Texas A&amp;M University-Kingsville</td>
<td>23,578</td>
<td>22,745</td>
</tr>
<tr>
<td>Tarleton State University</td>
<td>17,729</td>
<td>14,890</td>
</tr>
<tr>
<td>Prairie View A&amp;M University</td>
<td>17,582</td>
<td>18,723</td>
</tr>
<tr>
<td>West Texas A&amp;M University</td>
<td>9,920</td>
<td>6,220</td>
</tr>
<tr>
<td>Texas A&amp;M University-Commerce</td>
<td>3,827</td>
<td>4,166</td>
</tr>
<tr>
<td>Texas A&amp;M International University</td>
<td>3,740</td>
<td>3,067</td>
</tr>
<tr>
<td>Texas A&amp;M University-San Antonio</td>
<td>1,311</td>
<td>567</td>
</tr>
<tr>
<td>Texas A&amp;M University-Central Texas</td>
<td>1,240</td>
<td>623</td>
</tr>
<tr>
<td>Texas A&amp;M University-Texarkana</td>
<td>49</td>
<td>6</td>
</tr>
</tbody>
</table>

| Total                                               | 1,257,196 | 1,234,094 | 23,102   | 1.87%    |
# TAMU Hybrid NSF Total R&D Expenditures

($ Thousands)

<table>
<thead>
<tr>
<th>Member</th>
<th>Published by NSF 2019</th>
<th>Published by NSF 2020</th>
<th>Published by NSF 2021</th>
<th>Change 2019-2020 $</th>
<th>Change 2019-2020 %</th>
<th>Change 2020-2021 $</th>
<th>Change 2020-2021 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAMU</td>
<td>347,824</td>
<td>352,411</td>
<td>351,837</td>
<td>4,587</td>
<td>1.3%</td>
<td>(574)</td>
<td>-0.2%</td>
</tr>
<tr>
<td>AgriLife Research</td>
<td>224,025</td>
<td>232,520</td>
<td>232,698</td>
<td>8,495</td>
<td>3.8%</td>
<td>178</td>
<td>0.1%</td>
</tr>
<tr>
<td>TEES</td>
<td>181,422</td>
<td>202,870</td>
<td>225,459</td>
<td>21,448</td>
<td>11.8%</td>
<td>22,589</td>
<td>11.1%</td>
</tr>
<tr>
<td>HSC</td>
<td>89,801</td>
<td>233,020</td>
<td>224,237</td>
<td>143,219</td>
<td>159.5%</td>
<td>(8,783)</td>
<td>-3.8%</td>
</tr>
<tr>
<td>TTI</td>
<td>94,626</td>
<td>97,265</td>
<td>98,030</td>
<td>2,639</td>
<td>2.8%</td>
<td>765</td>
<td>0.8%</td>
</tr>
<tr>
<td>Other Agencies*</td>
<td>14,458</td>
<td>12,717</td>
<td>15,458</td>
<td>(1,741)</td>
<td>-12.0%</td>
<td>2,741</td>
<td>21.6%</td>
</tr>
<tr>
<td><strong>Total R&amp;D</strong></td>
<td><strong>952,156</strong></td>
<td><strong>1,130,803</strong></td>
<td><strong>1,147,719</strong></td>
<td><strong>178,647</strong></td>
<td><strong>18.8%</strong></td>
<td><strong>16,916</strong></td>
<td><strong>1.5%</strong></td>
</tr>
</tbody>
</table>

Other Agencies* represent: Texas A&M AgriLife Extension, Texas A&M Forest Service, Texas A&M University Galveston, Texas A&M Research Foundation, Texas A&M System Office & Shared Services and Texas A&M Veterinary Medical Diagnostic Lab
TAMUS NSF Total R&D Expenditures
($ Thousands)

2012 | $851,788
2013 | $891,017
2014 | $932,494
2015 | $946,295
2016 | $972,442
2017 | $996,741
2018 | $1,018,814
2019 | $1,054,668
2020 | $1,234,094
2021 | $1,257,196

- Federal
- Institutional
- State/Local
- Nonprofit
- Business
- Other
Texas A&M University System – FY 2021

- **Federal Government**: $568,153 (45%)
- **State/Local Governments**: $226,406 (18%)
- **Business**: $35,258 (3%)
- **Nonprofit**: $54,721 (4%)
- **Institutional Funds**: $339,869 (27%)
- **Other**: $32,789 (3%)

Total: $1.257 Billion
TAMUS Regional Campuses,
NSF Total R&D Expenditures - FY21

- **Federal Government**: $40,096 (37%)
- **State/Local Governments**: $27,923 (25%)
- **Business**: $2,280 (2%)
- **Nonprofit**: $9,586 (9%)
- **Institutional Funds**: $26,677 (24%)
- **Other**: $2,914 (3%)

Total: $109.5 Million
NSF RANKINGS
FY 20
TAMU Hybrid Members

- Texas A&M AgriLife Extension (Part 07)
- Texas A&M AgriLife Research (Part 06)
- Texas A&M Engineering Experiment Station (Part 28)
- Texas A&M Forest Service (Part 11)
- Texas A&M Galveston (Part 10)
- Texas A&M Health Science Center (Part 23)
- Texas A&M Research Foundation (Part 99)
- Texas A&M System Office & Shared Services (Part 01, 26)
- Texas A&M Transportation Institute (Part 12)
- Texas A&M University (Part 02)
- Texas A&M Veterinary Medical Diagnostic Lab (Part 20)
<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>Expenditures ($Billions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Johns Hopkins U.</td>
<td>$3.110</td>
</tr>
<tr>
<td>2</td>
<td>U. Michigan, Ann Arbor</td>
<td>$1.674</td>
</tr>
<tr>
<td>3</td>
<td>U. California, San Francisco</td>
<td>$1.651</td>
</tr>
<tr>
<td>4</td>
<td>U. Pennsylvania</td>
<td>$1.579</td>
</tr>
<tr>
<td>5</td>
<td>U. Washington, Seattle</td>
<td>$1.457</td>
</tr>
<tr>
<td>6</td>
<td>U. California, San Diego</td>
<td>$1.404</td>
</tr>
<tr>
<td>7</td>
<td>U. California, Los Angeles</td>
<td>$1.393</td>
</tr>
<tr>
<td>8</td>
<td>U. Wisconsin-Madison</td>
<td>$1.364</td>
</tr>
<tr>
<td>9</td>
<td>Harvard U.</td>
<td>$1.240</td>
</tr>
<tr>
<td>10</td>
<td>Stanford U.</td>
<td>$1.204</td>
</tr>
<tr>
<td>11</td>
<td>Duke U.</td>
<td>$1.197</td>
</tr>
<tr>
<td>12</td>
<td>Cornell U.</td>
<td>$1.190</td>
</tr>
<tr>
<td>13</td>
<td>U. North Carolina, Chapel Hill</td>
<td>$1.160</td>
</tr>
<tr>
<td>14</td>
<td>Texas A&amp;M U., College Station and Health Science Center</td>
<td>$1.131</td>
</tr>
<tr>
<td>15</td>
<td>U. Pittsburgh, Pittsburgh</td>
<td>$1.106</td>
</tr>
<tr>
<td>16</td>
<td>U. Maryland</td>
<td>$1.103</td>
</tr>
<tr>
<td>17</td>
<td>Yale U.</td>
<td>$1.094</td>
</tr>
<tr>
<td>18</td>
<td>U. Texas M. D. Anderson Cancer Center</td>
<td>$1.051</td>
</tr>
<tr>
<td>19</td>
<td>Georgia Institute of Technology</td>
<td>$1.049</td>
</tr>
<tr>
<td>20</td>
<td>U. Minnesota, Twin Cities</td>
<td>$1.042</td>
</tr>
</tbody>
</table>
NSF RANKINGS 1985-2021
Total R&D Expenditures

Data represents TAMU Hybrid Consolidation
NSF RANKINGS FY 20
Total R&D Expenditures

Top 25 NSF Institutions
Total: $32.13 Billion
Average: $1.285 Billion

Texas A&M University Hybrid
Total: $1.131 Billion

- Federal: 57%
- State and local: 8%
- Institutional: 3%
- Business: 4%
- Nonprofit: 21%
- All other sources: 7%

- Federal: 46%
- State and local: 18%
- Institutional: 26%
- Business: 5%
- Nonprofit: 2%
NSF HERD Survey Facts and Figures

1. Increased to 14th in Total R&D Expenditures with all Institutions (FY20); had previously been ranked at 22nd (FY19). UT MD Anderson Cancer Center moved to 18th (previously 20th); UT increased to 34th from previous ranking of 37th.

2. Rank increased to 24th from 36th in Federal R&D expenditures with all Institutions (FY20); UT increased to 27th from 31st in prior year (FY19). UT MD Anderson Cancer Center ranked 73rd (prior year 75th).

3. Increased to 8th (from 13th in FY19) in Total R&D Expenditures with Public Institutions Only (FY20). MD Anderson Cancer Center maintained ranking at 11th. UT ranked 19th which was increase from 21st (FY19).

4. Total R&D Expenditures for TAMU increased by 18.76% (FY20), while total nationally increased by 3.3%, and top 25 institutions increased 3.6%

5. Federal R&D Expenditures for TAMU increased by $157.9 Million or 43.9% (FY20), while Federal R&D Expenditures nationally increased by 3.8% and Federal top 25 institutions increased 4.3%

6. Federal Expenditures for TAMU represented 46% of Total Expenditures in FY20 (increased from 38% of Total in FY19), while the percentage of Federal to Total nationally was 53.5% in FY20 and 53.2% in FY19.
NSF HERD Survey – Field of Science

FY 2021

<table>
<thead>
<tr>
<th>Field of Science</th>
<th>Total R&amp;D</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life Sciences</td>
<td>487,219</td>
<td>42.5%</td>
</tr>
<tr>
<td>Engineering</td>
<td>385,661</td>
<td>33.6%</td>
</tr>
<tr>
<td>Geosciences, Atmospheric, and Ocean Sciences</td>
<td>106,930</td>
<td>9.3%</td>
</tr>
<tr>
<td>Physical Sciences</td>
<td>56,030</td>
<td>4.9%</td>
</tr>
<tr>
<td>Non-S&amp;E Fields</td>
<td>39,520</td>
<td>3.4%</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>28,965</td>
<td>2.5%</td>
</tr>
<tr>
<td>Computer and Information Sciences</td>
<td>19,179</td>
<td>1.7%</td>
</tr>
<tr>
<td>Other Sciences</td>
<td>10,941</td>
<td>1.0%</td>
</tr>
<tr>
<td>Mathematics and Statistics</td>
<td>6,730</td>
<td>0.6%</td>
</tr>
<tr>
<td>Psychology</td>
<td>6,547</td>
<td>0.6%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>1,147,720</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Shown in Clockwise Order of R&D Expenditures (Largest to Smallest)
Using Maestro for NSF HERD Survey
Maestro – NSF HERD Dashboard via Executive Portal

### NSF HERD Trends

**PRELIMINARY** - Final reconciliation of expenditures will be performed by Member during the fiscal year-end process.

<table>
<thead>
<tr>
<th>NSF Source of Funds</th>
<th>Total By Member/Year</th>
<th>Total By Funding Type/Year</th>
<th>Total By Paid Of Science/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAMHSC</td>
<td>91,553,372</td>
<td>96,189,791</td>
<td>94,567,331</td>
</tr>
<tr>
<td>TAMU</td>
<td>290,078,637</td>
<td>291,043,617</td>
<td>304,797,463</td>
</tr>
<tr>
<td>TAMUG</td>
<td>8,155,815</td>
<td>7,969,659</td>
<td>9,334,783</td>
</tr>
<tr>
<td>TESI</td>
<td>186,748,287</td>
<td>169,715,143</td>
<td>175,991,496</td>
</tr>
<tr>
<td>TITI</td>
<td>92,955,866</td>
<td>91,111,619</td>
<td>92,430,456</td>
</tr>
<tr>
<td>TVMDL</td>
<td>263,642</td>
<td>517,101</td>
<td>508,324</td>
</tr>
</tbody>
</table>

**Total By Year**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AL-EXT</td>
<td>127,662</td>
<td>2,960</td>
<td>13,702</td>
<td>49,964</td>
<td>31,873</td>
<td>61,583</td>
<td></td>
</tr>
<tr>
<td>AL-RSRCH</td>
<td>216,420,248</td>
<td>218,901,191</td>
<td>216,493,480</td>
<td>223,927,213</td>
<td>231,993,153</td>
<td>225,459,431</td>
<td>176,444,260</td>
</tr>
<tr>
<td>SAGD</td>
<td>6,096,626</td>
<td>3,315,640</td>
<td>2,854,497</td>
<td>1,064,423</td>
<td>1,402,536</td>
<td>2,239,378</td>
<td>2,001,839</td>
</tr>
<tr>
<td>SHARED-STRV</td>
<td>1,127,236</td>
<td>248,259</td>
<td>1,127,236</td>
<td>248,259</td>
<td>1,127,236</td>
<td>248,259</td>
<td>1,127,236</td>
</tr>
</tbody>
</table>
Maestro – NSF HERD Module
NSF HERD Data Setup in Maestro

NSF HERD Report Instructions (tamus.edu)

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Maestro Documentation

User Manuals

*Maestro User Manuals are being moved to the About Maestro --> Documentation Search menu as they are updated*
- Enforce Conflict Of Interest (FCOI) Administration
  - NSF HERD

Information Flyer

- Project Action Review and Approval
- Project Personnel Review
- Awards Based on Project Action Types
- Maestro Research Credit
- Maestro Interfaces
- Maestro -- Interfolio 180 Data Mapping

Presentations

- NSF HERD
NSF HERD Data Setup in Maestro

**Division of Research – Director of Research Reporting**
- Define NSF HERD Groups and Field of Science
- Define Indirect cost base (MTDC15) to be used for unrecovered IDC calculation
- Default IDC Rates per Member,
- Fully Excluded Object Codes

**Member Set Up**
- Excluded Sub Vendors, Type of Cost
- Benefits Pool Account
- Bank As Source of Funds
- Check Projects and Accounts Attributes regularly or at least before year-end
- Check Subcontract Vendors and Payments (especially in 12th fiscal month)
- Run NSF Calculation if Setup data or Account attributes have been changed
- Run HERD Reports for Member

---

**Research Reporting (NSF HERD Reports)**

**IMPORTANT:** Attributes in EIRIS must be reviewed or corrected BEFORE the member’s access to updated HERD accounts is restructured during the fiscal year’s annual financial report review process by System Budgets & Accounting, as early as last week in September for fall semesters.

**Member NSF HERD MAESTRO REPORTING CHECKLIST – ATTRIBUTES TO REVIEW**

<table>
<thead>
<tr>
<th>No</th>
<th>Item</th>
<th>Note</th>
</tr>
</thead>
</table>
| 1 | Define Program, project to review HERD (Sponsored Project) information to ensure that all projects have set up HERD (Sponsored Project) information. An indirect cost rate (ICR) may be included as “Other” and may be set up at separate rates or at rates not applicable. This is a critical audit and may change to match the current year’s financial report.
| 2 |  | Nonexpendable property accounts should be considered for HERD – Indirect costs base (ICR) should be used to determine HERD rates. Nonexpendable property accounts, gift accounts, any other research center accounts, your bank’s accounts, and external costs. Ensure all accounts are set up correctly.
| 3 |  | Cost of a new equipment added with Effort Code 00R (over $100 or above $100,000)
| 4 |  | Gift accounts/charities – Match on licenses 01R and Post Source Code 01R.
| 5 |  | Check larger institutional accounts, Banner Billing Accounts. Match accounts with Effort Code 00R, name. “Total” Payroll will be included as the HERD Herd reporting.
| 6 |  | OFCM/Finance requests, account must be T in System 01R, 01R with any non-research rate of 95% should be reviewed to ensure there are no errors in the ledger. Ensure all accounts are set up correctly in the appropriate section and are included.
| 7 |  | Check NSF and/or OMB accounts. Research support accounts, OMB and NSF accounts. Ensure all accounts are set up correctly in the appropriate section and are included.
| 8 |  | Match all accounts with Effort Code 00R (or other fields to match). Match NSF and/or OMB accounts with the correct department. The first account to identify the department. Ensure all accounts are set up correctly in the appropriate section and are included.

---

Page 3 of 55
NSF HERD Member Setup in Maestro

Activity – MUST be 1A to be included in NSF HERD Report. Accounts marked as 1B will be excluded.

- 1A – This means project is classified as R&D – Research & Development.
- 1B – Project is not research (or research that is not to be included in survey), so it could be:
  - instruction
  - public service academic support (library)
  - student services
  - Institutional support
  - operations & maintenance
  - scholarships & fellowships

- Projects that may be function 15 = research (FAMIS) but not to be counted as R&D expenditures:
  - TAMRF billing accounts
  - Service centers (services are already billed out to campus customers and accounts)
  - Grants that may counted as research on AFR, but not for survey (mapping and surveys, routine product testing, quality control)
NSF HERD Member Setup in Maestro

• Cost sharing accounts or support accounts are coded with Effort Type code = CSOR.
• Cost Share Account Link – determines reporting codes for cost share account based on source research account.
• Gifts – are coded with Fund Source = 01 or 02 (Shown on Screen 006 in FAMIS – FRS)
  • 01 = Earnings on Endowments
  • 02 = Gifts or Donations
• Effort Code RFOA – Mark Research Foundation payroll billing accounts with RFOA effort code. Part 99 (TAMRF) accounts will be included in the NSF HERD reporting through Maestro.
NSF HERD Member Setup in Maestro

- Off Campus flag – determines the proper indirect cost rate for unrecovered IDC calculation (projects with off campus research rate).
- Alternate System Member (System Member on FAMIS screen 51) – determines the Reporting Member.
- Each account must have the sponsor set to determine source of funds.
- Sponsors will be grouped by sponsor type.
  - Federal Flow Through will be reported as Federal expenditures.
- Assistance Listing Number (CFDA Number) – determines if an account is Federal Flow Through.
Reporting Codes and Sponsor – Function 15 accounts NOT linked to a Maestro Project

- Assign reporting codes / sponsor on non-sponsored project accounts
  - State appropriations
  - Designated accounts (institutional source)
  - Gift accounts
- Coding is entered on Screen 009 or 059 in FAMIS
- Must enter:
  - 1A – R&D, or 1B – Other Sponsored Activities
  - Science & Engineering Field, 2A1 – 2P2
  - Special Area of Interest (for THECB reporting) – Not a required field in FAMIS, 3A – 3P
  - Character of Work – 4A Basic, 4B Applied, or 4C Development
  - Selection Process – 5A Competitive, Peer Reviewed or 5B Negotiated or Other (Not required for NSF or THECB, but needed in FAMIS)
FAMIS Screen 009 – SL Attributes
FAMIS Screen 059 – SA Attributes

F0013 Please enter desired modifications
059 Support Account CFDA and THECB Codes

Screen: ______ Account: 133502 07401

Sponsor: 0000794 STATE OF TEXAS - STATE APPROPRIATIONS
Delete: __

CFDA Nbr: ______ NSF Category: ____________

Activity: 1A
Science/Engineering Field: 2B2
Special Areas of Interest: ___
Character of Work: 4A
Selection Process: 5A

Addtn'l Special Areas of Interest: _______ _______ _______ _______ _______

CS Acct Link: 02 407401

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Hmenu Help EHelp CCsAL
# Sponsors – For non-sponsored accounts

*(Function 15, Research Accounts Ledgers 1-3 and 5, NOT Maestro projects)*

<table>
<thead>
<tr>
<th>Account Range</th>
<th>Type of Funds</th>
<th>SPR Sponsor Name</th>
<th>SPR Spon No.</th>
<th>Sponsor Type</th>
<th>Comment</th>
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<td>STATE OF TEXAS - STATE APPROPRIATIONS</td>
<td>0000794</td>
<td>SA</td>
<td>Most commonly used for faculty salary CS</td>
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<td>INSTITUTIONAL SOURCES</td>
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<td>Can use this sponsor number on 2***** (designated).</td>
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<td>230*** or 231***</td>
<td>Designated</td>
<td>DESIGNATED FUNDS – F&amp;A REVENUES</td>
<td>0005175</td>
<td>IN</td>
<td>Cost Share and Indirect Cost Accounts</td>
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<tr>
<td>5*****</td>
<td>Restricted Gifts</td>
<td>Check to see if gift account shows the sponsor.</td>
<td>Use Specific Sponsor Number.</td>
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<td>May have to request new sponsor be set up.</td>
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<tr>
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<td>TEXAS A&amp;M FOUNDATION (FORMERLY DEVELOPMENT FDN)</td>
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<td>Private - Non Profit Foundation</td>
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<tr>
<td>5*****</td>
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<td>VARIOUS-PRIVATE NONPROFIT-PROF. TRADE</td>
<td>0006640</td>
<td>NT</td>
<td>Private - Non Profit Trade / Professional Associations</td>
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</table>
**Missing Codes Notification**

**Sent to Reporting Administrator (monthly)**

---

### Resend Notification

<table>
<thead>
<tr>
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<th>Notification Type</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>788817</td>
<td>Reporting code missing</td>
<td>[Maestro] Reporting codes are missing on research project or research accounts</td>
</tr>
</tbody>
</table>

**Message**

TAMU has 15 projects and/or non-sponsored accounts where the reporting codes are missing. Reporting codes are needed to produce the monthly NSF HEROS reports. Please enter the information before the end of the month so these projects/accounts will be included in the reports.

- **Projects without reporting codes (3):** M1000046, M1001910, M1002077
- **Accounts without reporting codes (3):** 144096-07703

**Criteria:**
- Project is function 15 and has billing project transferred to RAMIS.
- Account is function 15, it is non-sponsored account and it has expenses in current fiscal year.

---

### Recipients

<table>
<thead>
<tr>
<th>Action</th>
<th>View</th>
<th>+</th>
<th>−</th>
<th>Detach</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recipient Name</strong></td>
<td><strong>Email Address</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amanda Retmey</td>
<td><a href="mailto:areitmayer@tamu.edu">areitmayer@tamu.edu</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Janet Killion</td>
<td><a href="mailto:jkillion@tamu.edu">jkillion@tamu.edu</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Member Setting – IDC Default Rates

End of year process will copy IDC rates values to the next fiscal year if nothing is entered for the next fiscal year.
Member Setting –
Fully Excluded Object Codes

• Codes excluded are consistent with codes not reported in AFR.
• Based on Survey definitions certain object codes cannot be included in reporting of research expenditures:
  • Capital expense codes (except for equipment and fabrication of research equipment).
  • Non-operating codes for Judgments & Settlements
  • Non-operating codes for Interest expense
  • Bad Debt Expense codes (treated as contra-revenue)
  • Investment fees
• Review your list to make sure you are okay with exclusions.
Member Setting –
Fully Excluded Object Codes

<table>
<thead>
<tr>
<th>Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Object code from</th>
<th>Object code to</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
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<td>6014</td>
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</tr>
</tbody>
</table>
TAMU Hybrid Setting – Excluded Sub-Recipient Vendors

- Maestro provides screen where you can exclude “vendors” that are paid on Sub-Recipient expense codes, 6435-6450
- For the TAMU NSF Hybrid Report, payments made on Intrasystem object codes (object codes 6439-6440, 6443-6444, 6447-6448) to other System members that are part of the NSF HERD Survey are excluded to eliminate duplication of research expenditures
- Do NOT exclude payments made to Texas AgriLife Extension, TDEM that code their projects as “public service (function 20).”
- Do NOT exclude payments to regional campuses.

Members Included in TAMU Hybrid Reports:
- 01 – SAGO
- 02 – TAMU
- 06 – AL-RSRCH
- 07 – AL-EXT
- 10 – TAMUG
- 11 – TFS
- 12 – TTI
- 20 – TVMDL
- 23 – TAMHSC
- 26 – SHARED SERVICES
- 28 – TEES
- 30 – TDEM
- 99 – TAMRF
TAMU Hybrid Setting – Excluded Sub-Recipient Vendors

• User can exclude other transaction, and it will be remembered for next NSF calculation.

• If user does not want to exclude transaction previously excluded, then remove vendor name from the excluded vendor list.

• Action – Re-Calculate NSF Report – if any manual work is done on this screen and additional transactions were excluded, in order to add this to main worklist this action needs to be performed. The action will delete existing records with amount type Sub-Payment Corrections and add new records in Worklist 1 with the same type.
TAMU Hybrid Setting – Excluded Sub-Recipient Payments

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</tbody>
</table>

Notes: TAMIU - Texas A&M University
NSF - National Science Foundation
Member Setting –
Type of Cost Definitions

Review list of object codes associated with HERD definitions for:

• Salaries, wages and fringe benefits
• Software purchase
  • Non capitalized software
  • Capitalized software
• Capitalized equipment
• Pass-through to other universities or organization
• Other direct cost
• Indirect cost
  • Recovered indirect cost
  • Unrecovered indirect cost
Member Setting – Type of Cost
Member Setting – Benefit Pool Accounts

Used to allocate state and designated pooled benefit expenses for research to various field of science codes and departments (used by TAMU, TAMUG)

• Example:
  State benefits that are not directly charged to cost sharing paid from state appropriations.
Member Setting (Academics Only) – Estimated Student Tuition
Member Setting (AL-RSCH Only) – Bank as Source of Funds

To determine source of funds: State or Federal on the same account
### NSF HERD Field of Science

**General Tasks**
- NSF Checklist Template
- Contact Assignment
- Assignment Groups
- Project
  - Negotiation/Review
  - Instrument Type
  - Deliverable Template
  - Deliverable Type
  - Deliverable Frequent
- Document Type
- Terms & Conditions
- Administrator Maint
- Admin Org Profile
- Member Settings
- Location Type
- Terms & Conditions
- Action Status
- All Closeout Steps
- IDC Distribution Tab
- Member ABR Rule
- Default College IDC
- Member IDC Base

**Display Order**
- Code
- Title
- Description
- Status

**Field of Science**

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<thead>
<tr>
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<th>Description</th>
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<tbody>
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<td>Atmospheric Sciences</td>
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<td>Active</td>
</tr>
<tr>
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<td>202</td>
<td>Geological Earth Sciences</td>
<td>202</td>
<td>Active</td>
</tr>
<tr>
<td>3</td>
<td>203</td>
<td>Ocean and Marine Sciences</td>
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<tr>
<td>4</td>
<td>18</td>
<td>Either the Atmospheric or Ocean Sciences</td>
<td>18</td>
<td>Active</td>
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</table>
NSF HERD Field of Science for Projects (PI Setting)
HERD Report
Calculations
Maestro – NSF HERD Module
NSF Reporting

The image shows a screenshot of a software interface for NSF Reporting. The interface appears to be a user interface for managing NSF (National Science Foundation) reports. The interface includes fields for member, fiscal year, SL account, SA account, account description, NSF source of funds, NSF source of funds code, account funding type code, and account funding type. The data is displayed in a table format, showing entries for different fiscal years and member IDs. The interface allows for search capabilities and data editing functions.
Worksheets created by Maestro during Calculations

Each Worksheet has detail and summary record per account and month.

- **WS1** – NSF HERD Report (Main Worksheet)
  - Expenditures
  - Unrecovered IDC from WS3
  - Student Tuition Waivers – Waivers for graduate students paid on R&D accounts
  - Sub-Recipient payments between members correction from WS2
  - Pooled Benefit Account Allocations
  - Distribution By Bank
  - Manual Adjustments

- **WS2** – Exclusion of Subcontract payments between members
  - Member can mark individual transactions to be excluded

- **WS3** – Unrecovered IDC (indirect costs)

- **WS4** – Bank Distribution

- **WS5** – Student Tuition Waivers

- **WS6** – Benefits Distributions
Procedures and Calculations

• Only Member Reporting Administrator has access to run reports.
• Member or Reporting Member and Fiscal Year must be entered. Run reports as MEMBER in order to make sure accounts and amounts are reconciled to Member financial records.
• Any field from the existing records can be searched to narrow the search results.
• Recalculate NSF Report – If reporting administrator changes account attributes that are part of NSF Calculation or to include transactions for last fiscal year after FY close in FAMIS (September 6, 2022), user must choose action Recalculate NSF Report.
Tips on Viewing Amounts

• How to view what other members administer for your member, use following condition:
  - Member <> User’s Member
  - Reporting Member = Member
• View what my member administers for others, use following condition:
  - Member = User’s Member
  - Reporting Member <> Member
• View all accounts records from other worklists
• Although every worklist has Summary overview, Maestro shows data only relevant to worklist calculation. To see summary records with all account details, use amount type to narrow records shown.
Customize Columns

- Use “View” feature on the screen to display all columns you need for report
- Select “Columns”
  - Show All (at top of list)
  - Manually Select Columns
  - Manage Columns (at end of list)
Actions on NSF HERD Report Work List

• Recalculate NSF HERD Report
• Add/Edit/Delete Expenditure Adjustments
Manual Adjustments: Add / Edit / Delete

- Use NSF HERD Report Work List, Detail tab
- Action: Add / Edit / Delete Expense Adjustment
- The more information included in the adjustment, the more Maestro’s programming can ensure the adjustment is included in the various report calculations (i.e. NSF Source of Funds, Field of Science, Types of Costs, Sponsor Type, etc...)
Yearly Procedure – Student Tuition Waivers (Final step)

• Load actual Student Tuition Waiver records
• For each tuition waiver for UIN and semester
  □ Check if there was a payroll for the particular UIN on subcodes 1325,1415 and 1525 on research accounts with activity “1A” in given semester.
  □ The total waiver amount is distributed among accounts proportional to the paid amount.
  □ At the end, totals for the account are imported into NSF Main worklist with member assign to be member account and reporting member to be member for academic institution or Hybrid member for agency.
• This calculation should be done after all members in TAMU Hybrid group reconcile HERD Report with their books as a last step before running reports.
• If Member reruns HERD calculation, Student Tuition Waiver calculation needs to be run again.
Student Tuition Waivers
Maestro Reports

• NSF Non-sponsored accounts without reporting codes / sponsor
• NSF Project without reporting codes / sponsor

• Source of funds (Q1)
• Foreign Funds by sponsor types (Q2)
• Type of Agreements (Q3)
• Character of work (Q6)
• Funds Received as Sub-Recipients (Q7)
• Funds passed to Sub-Recipients (Q8)
• Federal funds by field of science and NSF Category (Q9)
• Top 10 Agencies (Q10)
• Non Federal funds by field of science and sponsor type (Q11)
• Funds by Type of costs (Q12)
• Capital equipment portion by field of science (Q14)
Maestro Monthly Reporting Process
Monthly Calculation – Run on 6th day of the month

1. Remove all previous data for the current Fiscal Year except for sub-recipient transactions.

2. Create new records with Amount type “Expenditure” for all accounts that are:
   - NACUBO Function 15 (Research)
   - Activity code = 1A; 1B accounts marked Function 15 are excluded.
   - Not marked as RF Payroll Clearing account - Effort code RFOA
   - Exclude Transactions with subcodes listed in “Fully Excluded Object Codes”
   - Records are created for each month where transaction amount <> 0

3. Create new Sub-Recipient correction records
   - Add new transactions into Subcontract Payments Exclusion Worksheet (WS2) that are coded under defined subcodes from excluded Sub-Vendors
   - If vendor name matches selected vendor name to be excluded, mark transaction as excluded.
   - Add to Worksheet 1 totals per account/month with amount type “Correction” for sub and negative amount.
Monthly Calculation – continued
Run on 6th day of the month

4. Create records for unrecovered IDC
   • Delete all records from Unrecovered IDC Worksheet (WS3) for current fiscal year.
   • Calculate base expenditure for each account / month based on member IDC base setup. For accounts that are sponsored by sponsor “State Appropriation” or have “Institutional” source of funds, Maestro won’t calculate unrecovered IDC.
   • Calculate using actual % IDC for the account in given month.
   • Define default rate that needs to be applied to calculate full IDC based on member setting.
   • Calculate IDC for default rate.
   • Calculate Unrecovered IDC if default rate is higher than actual rate.
   • Add unrecovered IDC records to Worksheet 1 with amount type “Unrecovered IDC” and source of funds “Institutional -Unrecovered indirect cost”.
Monthly Calculation – continued
Run on 6th day of the month

5. Update Source of Funds, Reporting Codes and Reporting Member in main worksheet
   • Check if expenditure are Federal flow through or CDFA number is set and if this is the case, set Source of funds to Federal. This applies to the accounts that are not coded with Federal or Institutional source of fund.
   • Check if sponsor is type SC – State College/University and sponsor state is Texas and if this is the case set Source of Funds to “State and Local Government”. This applies to the accounts that are not coded with Federal or Institutional source of fund.
   • Check if account is set as Gift (fund source is set to 01 or 02 and source of fund is not Institutional or Federal), and if this is the case set source of funds to “Other”.
   • If effort type code is set to ‘CSOR’, set source of funds to Institutional – Cost sharing.
   • Set all reporting codes to match account setup codes.
   • Set reporting member to member if ALT Member field is not populated, otherwise use ALT Member as reporting member.
   • If account has cost share link set, update account reporting codes to match cost share linked account’s reporting codes.
Monthly Calculation – continued
Run on 6th day of the month

6. Add estimated student tuition waiver amount to WS5
   • For each field of science add records that will represent student tuition waiver amount.
   • Amount added for each month is estimated amount from student tuition member setup screen.
   • These funds are recognized as “Institutional” source of funds.

7. Benefits Distribution
   • Delete previous record for FY from Fringe/Benefits (FB) distribution Worksheet (WS6).
   • For each FB account given in Member’s setup (SA is 00000), create records from payroll data with salary account information and the amount that matches Benefits or Longevity expenditures.
   • Salary account must be coded as Research to be a part of distribution (activity=1A, 1B and function=15, not excluded).
   • Add records to Worksheet1 to take out distribution amount (1A and 1B) for year-end FB account.
   • Add records into Worksheet 1 as for each account with activity 1A in distribution.
Monthly Calculation – continued
Run on 6th day of the month

8. Distribution By Bank Code
   • Delete previous distribution for fiscal year.
   • For each account in a given range that is not coded with “Cost Sharing” source of funds and for each month in fiscal year, create record in bank distribution Worksheet with total amount from transactions where bank matches given bank from member setup.
   • Add record to Worksheet 1 for each account from bank distribution Worksheet using “account source of funds” with negative amount for a month.
   • Add record into Worksheet 1 for each account using “bank source of funds” with amount for a month.
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