



NSF/MPS/PHY Personnel

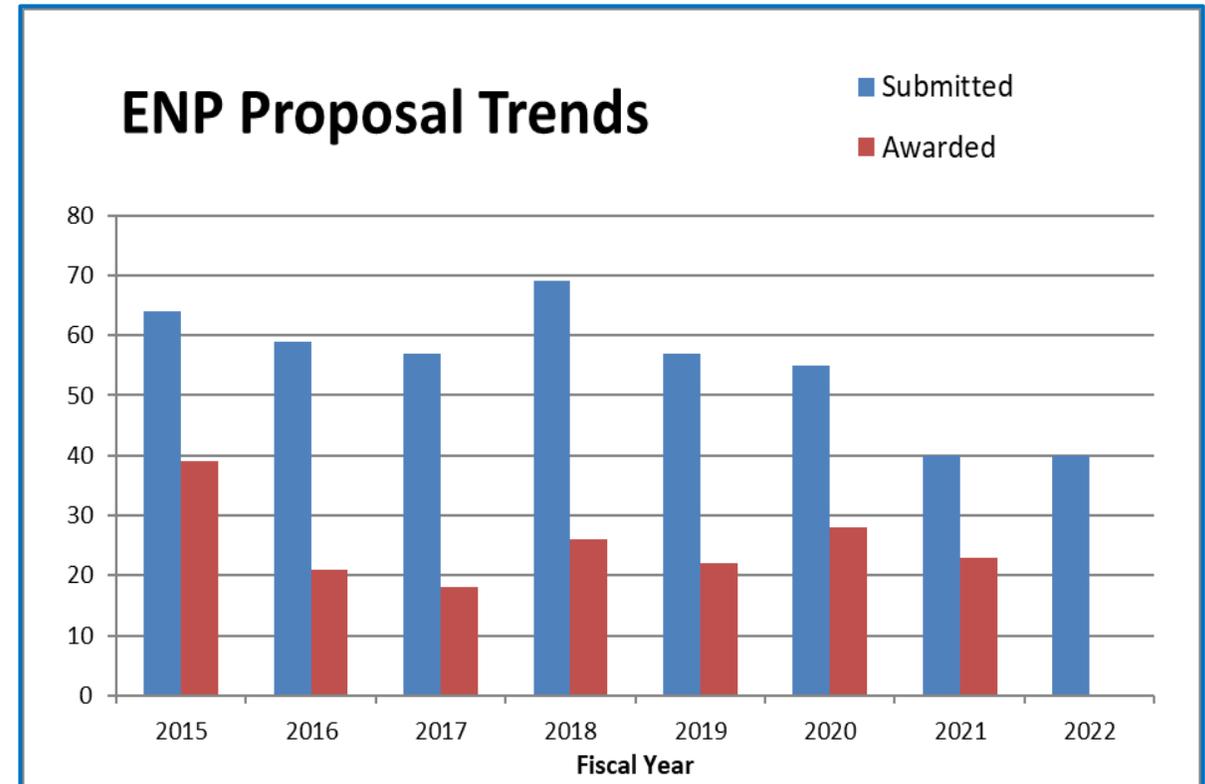
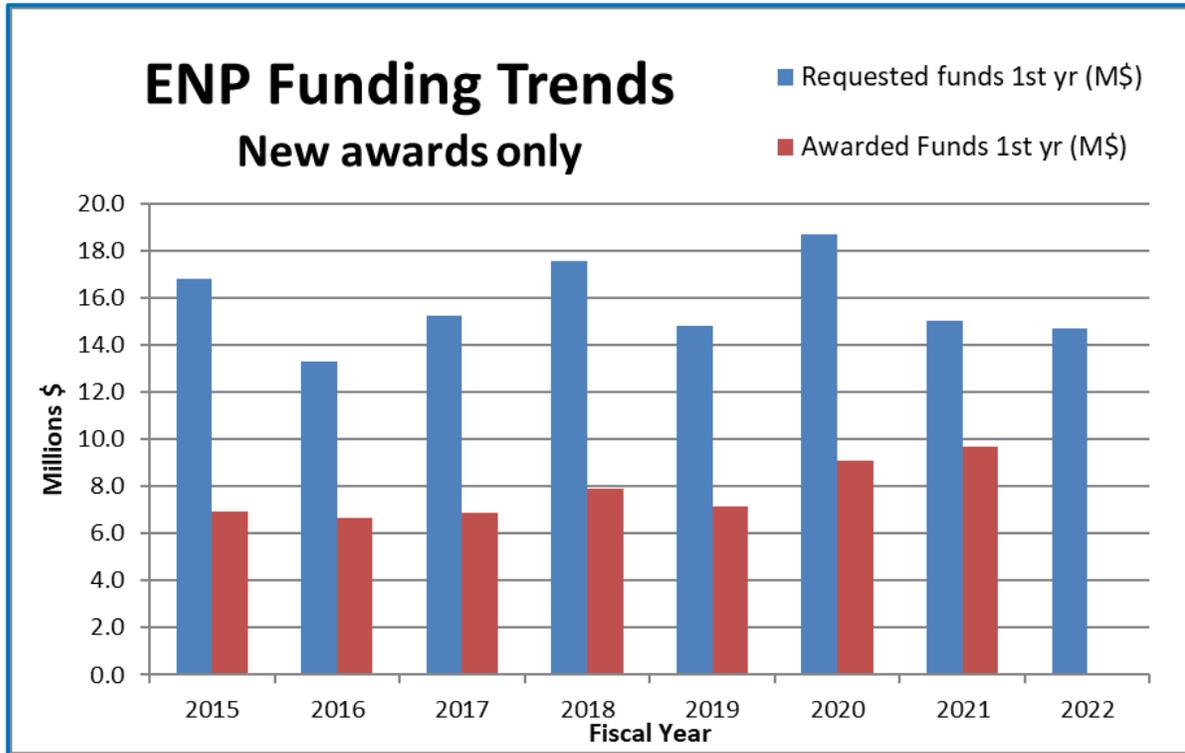
- Sethuraman Panchanathan – Director
- Sean L. Jones – Assistant Director for MPS
- Denise Caldwell – Physics Division Director
- Jean Cottam Alan – Deputy Division Director
- Bogdan Mihaila – Nuclear Theory Program Director
- ★ Alfredo Galindo-Uribarri – Expt'l Nuclear Physics Program Director
- Allena Opper – Expt'l Nuclear Physics Program Director



<https://beta.nsf.gov/careers/openings/mps/phy/phy-21-001>
www.nsf.gov/careers/rotator

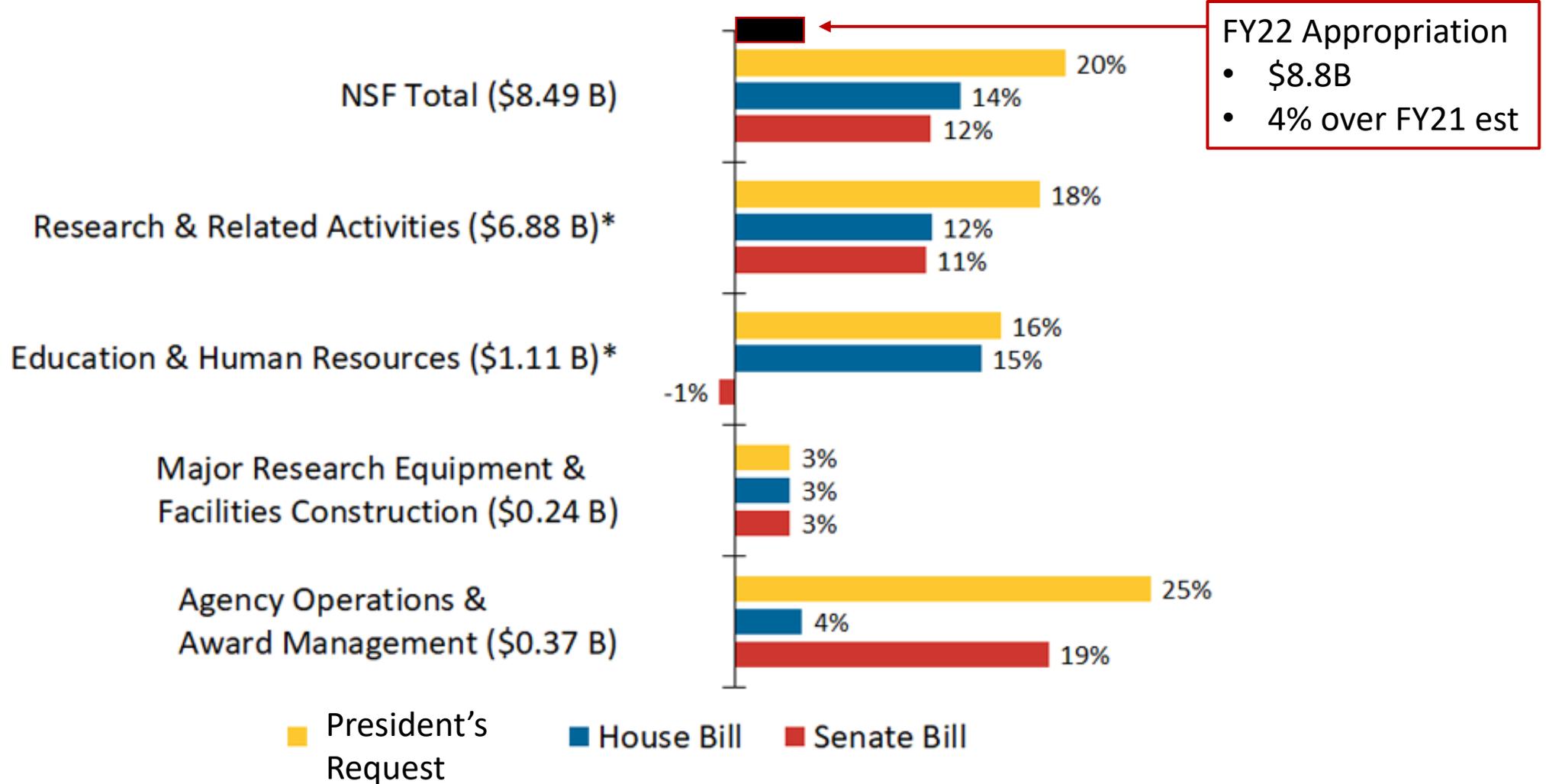


Proposal Trends in Experimental Nuclear Physics



FY22 Budget Proposals – NSF

\$ in () = FY21 estimates



* Figures account for consolidation of the Graduate Research Fellowship Program budget in the EHR directorate.





FY22 & FY23 NSF Budget Process

- Agency budget request → OMB ~ end of summer
- “Pass Back”: OMB iterates with agency ~ Fall
 - May also include additional instructions
- President’s Budget Request made public ~ early Feb
 - Much activity → NSF Budget Book
- ...

FY23 ✓

FY23 ✓

FY23: 28-mar-2022

At least 60 days

- Congress passes appropriation ~ before beginning of FY (1-oct)
 - NSF: Amounts for 6 high-level accounts, occasionally with
- President signs appropriation; budget → agency via OMB
- NSF generates a full “Current Plan” and submits to Congress via OMB
- Congress acts within 30 days: “Current Plan” → “Operating Plan”

FY22:
15-mar-2022

FY22 Operating
Plan ???



Director's vision points to opportunities we must seize:

- Strengthening Established NSF
 - NSF's central focus = accelerate discovery and enhance state of the art research capabilities
- Bringing the "Missing Millions" into the STEM Workforce
 - There is tremendous untapped STEM potential throughout the nation
- Accelerating Partnerships
 - NSF will foster partnerships with other agencies, private industry, philanthropy, like-minded countries – and thriving partnership environments

FY 2023
BUDGET REQUEST
TO CONGRESS





FY23 President's Budget Request – NSF (\$M)

What Congress appropriates

NSF by Account	FY 2021				FY 2023 Request change over:			
	FY 2021 Actual	ARP Actual	FY 2022 Enacted ¹	FY 2023 Request	FY 2021 Actual		FY 2022 Enacted	
					Amount	Percent	Amount	Percent
BIO	\$817.74	\$9.18		\$970.23	\$152.49	18.6%	N/A	N/A
CISE	1,007.13	35.72		1,150.78	143.65	14.3%	N/A	N/A
ENG	764.43	3.00		940.28	175.85	23.0%	N/A	N/A
GEO	1,004.27	71.04		1,239.05	234.78	23.4%	N/A	N/A
MPS	1,593.31	20.33		1,746.847	153.54	9.6%	N/A	N/A
SBE	282.11	18.16		330.21	48.10	17.0%	N/A	N/A
TIP ²	369.01	19.87		879.87	510.86	138.4%	N/A	N/A
<i>TIP Programs</i>	136.73	2.00		596.81	460.08	336.5%	N/A	N/A
<i>SBIR/STTR, including Operations</i>	232.28	17.87		283.06	50.78	21.9%	N/A	N/A
OISE	51.29	1.45		74.04	22.75	44.4%	N/A	N/A
OPP	484.04	14.52		547.10	63.06	13.0%	N/A	N/A
IA ³	386.42	2.28		545.86	159.44	41.3%	N/A	N/A
U.S. Arctic Research Commission	1.60	-		1.72	0.12	7.5%	N/A	N/A
Research & Related Activities	\$6,761.35	\$195.54	\$7,159.40	\$8,425.987	\$1,664.63	24.6%	\$1,266.59	17.7%
STEM Education^{3,4}	\$1,110.85	\$23.99	\$1,006.00	\$1,377.18	\$266.33	24.0%	\$371.18	36.9%
Major Research Equipment & Facilities	\$161.27	\$8.95	\$249.00	\$187.23	\$25.96	16.1%	-\$61.77	-24.8%
Agency Operations & Award Management	\$384.52	\$12.00	\$400.00	\$473.20	\$88.68	23.1%	\$73.20	18.3%
Office of Inspector General	\$17.61	-	\$19.00	\$23.393	\$5.78	32.8%	\$4.39	23.1%
Office of the National Science Board	\$4.43	-	\$4.60	\$5.09	\$0.66	14.9%	\$0.49	10.7%
Total, NSF Discretionary Funding	\$8,440.03	\$240.48	\$8,838.00	\$10,492.08	\$2,052.05	24.3%	1654.08	18.7%
STEM Education - H-1B Visa	146.51	-	162.47	158.86	12.35	8.4%	-3.61	-2.2%
Donations	25.94	-	10.00	10.00	-15.94	-61.4%	-	-
Total, NSF Mandatory Funding	\$172.45	-	\$172.47	\$168.86	-\$3.59	-2.1%	-\$3.61	-2.1%
Total, NSF Budgetary Resources	\$8,612.48	\$240.48	\$9,010.47	\$10,660.94	\$2,048.46	23.8%	\$1,650.47	18.3%



FY23 President’s Budget Request – MPS (\$M)

	FY 2021	FY 2021	FY 2022	FY 2023	Change over	
	Actual	ARP Actual	(TBD)	Request	FY 2021 Actual Amount	Percent
Astronomical Sciences (AST) ¹	\$289.27	-	-	\$294.05	\$4.78	1.7%
Chemistry (CHE)	259.60	-	-	284.14	24.54	9.5%
Materials Research (DMR)	330.07	-	-	349.92	19.85	6.0%
Mathematical Sciences (DMS)	243.66	-	-	259.47	15.81	6.5%
Physics (PHY)	304.42	-	-	316.59	12.17	4.0%
Office of Multidisciplinary Activities (OMA)	166.29	20.33	-	242.677	76.39	45.9%
Total	\$1,593.31	\$20.33	-	\$1,746.847	\$153.54	9.6%





Faculty Career Development Program (CAREER)

- CAREER - Awards in support of early-career faculty who have the potential to serve as academic role models in research **and education**, and to lead advances in the mission of their department or organization.
 - Integration of Research and Education - CAREER proposals should describe an integrated path that will lead to a career as a researcher and educator
- PECASE - Presidential Early Career Awards for Scientists and Engineers from among the most meritorious recent CAREER awardees
 - PECASE nominees are chosen from within the pool of CAREER awardees
- Eligibility – must be untenured assistant professor in position that is at least 50% tenure-track
- Five year awards

NSF 22-586





Faculty Career Development Program (CAREER)

- Deadline: Fourth Wednesday in July \Rightarrow **July 27, 2022** **NSF 22-586**
- Required department chair may not be a letter of support; should
 - Affirm PI's pre-tenure status
 - Indicate that the proposed research and education objectives of the proposal are supported by and advance department's goals
 - Describe how proposed goals are related to mission of department and how dept will provide appropriate mentoring
- PECASE text: additional requirement for the PI to reflect commitment to STEM DEI& accessibility
- Single copy document: states PI's eligibility for PECASE (optional)
- Submission through Research.gov or Grants.gov (not FastLane 😞)





PHY DCL: Growing a Strong, Diverse Workforce NSF 21-065

PHY-GR Supplements – emphasis on URM^s in STEM fields

- Graduate Student Eligibility
 - Not currently supported by federal government (NSF, DOE, NIH, ...)
 - US Citizen, US National, or US Permanent Resident
- Stipend, tuition, benefits, and IDC (~\$60k)
- Renewable up to two times, no deadline for submission however, early submission suggested

REU Supplements – emphasis on URM^s in STEM fields

- US Citizen, US National, or US Permanent Resident





MPS – ASCEND

ASCEND - Postdoctoral Research Fellowships NSF 22-501

- Goal: to support Postdoctoral Fellows who **will broaden the participation of groups who are underrepresented in Mathematical and Physical Sciences (MPS) fields in the U.S.**
- Prepare PD Fellows to transition from a postdoctoral position into the first few years of an academic faculty position
- Fellowships are **awards to individuals**, not institutions, and are administered by the Fellows
- \$100k/year for up to 3 years
- 2nd competition: **under review**



MPS – ASCEND

ASCEND - Postdoctoral Research Fellowships

FY21 MPS ASCEND Fellows (33)





MPS – LEAPS

LEAPS: Launching Early-Career Academic Pathways in MPS NSF 22-503

- Designed to launch research careers of pre-tenure faculty in MPS fields, emphasis on *minority-serving institutions (MSIs), predominantly undergraduate institutions (PUIs), and Carnegie Research 2 (R2) universities* while promoting the participation of the entire MPS scientific community
- Awards = 24 months, up to \$250k
- 2nd competition: **under review**



MPS – LEAPS

LEAPS: Launching Early-Career Academic Pathways

FY21 LEAPS-MPS Ascend Awardees (45)



For the latest updates:

<https://www.nsf.gov/physics>

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PHY Replaces DCL with Solicitation NSF 14-576

The Physics Division has issued a solicitation ([NSF 14-576](#)) for FY2015 that replaces its prior annual Dear Colleague Letter. The solicitation follows most of the requirements in the Grant Proposal Guide, but has additional requirements that relate primarily to proposers who anticipate having multiple sources of support, and proposals involving significant instrumentation development. The solicitation also has deadlines instead of target dates. All proposals submitted to the Physics Division that are not governed by another solicitation (such as CAREER) should be submitted to this solicitation; otherwise they will be returned without review.

PHY Int'l Activities - Potential Co-Review

The Physics Division has issued a Dear Colleague Letter ([NSF 14-009](#)) to announce the guidelines for "International Activities within the Physics Division - Potential International Co-Review". The DCL outlines a possible coordinated review of projects involving international colleagues and counterpart funding organizations where a mutual review and funding process is beneficial to the advancement of Physics research. Contact with the appropriate NSF Program Officer is a necessary first step and additional time for this coordination must be allowed. Proposals requesting co-review will be competing with all other proposals in that area and must succeed on the strengths of their intellectual merit and broader impact.

Special Announcements

[MPS Alliances for Graduate Education and the Professoriate - Graduate Research Supplements \(AGEP-GRS\) Dear Colleague Letter \(NSF 13-071\)](#)

[Dear Colleague Letter - Announcement of Instrumentation Fund to Provide Mid-Scale Instrumentation for FY2014 Awards in Physics Division \(NSF 13-118\)](#)

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