



National Science Foundation – Nuclear Physics

- Brief Comments
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 - NSF Budget Info
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 - PHY Staff



Allena K. Opper
September 2022

NSAC

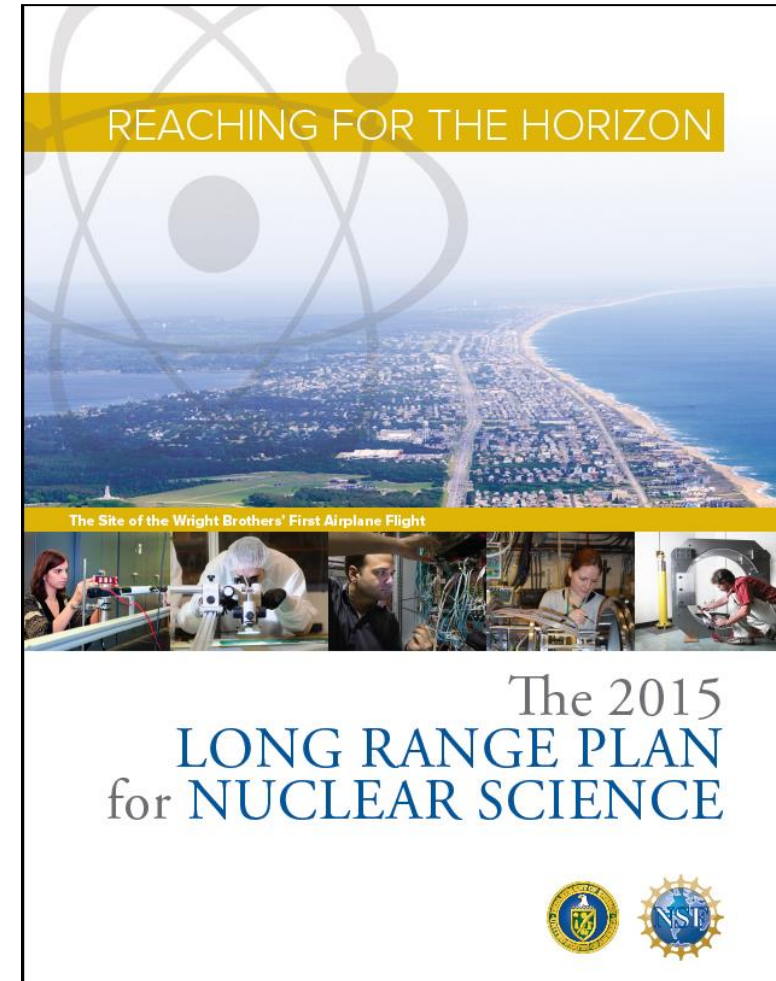
September 2022





Long Range Plan for the Nation's Nuclear Science

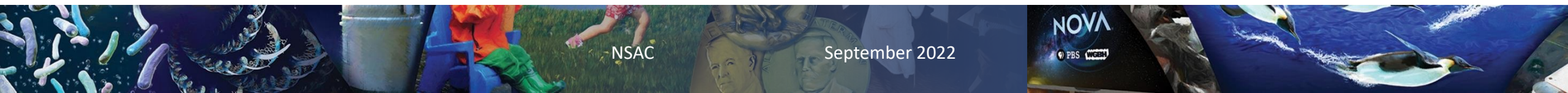
- 2015 LRP
 - Charge letter dated 23-apr-2014
 - LRP report due by October 2015
 - LRP report presented 15-oct-2015
- 2023 LRP
 - Charge letter dated 11-jul-2022
 - LRP report due by October 2023
 - ie 2.5 months less time
- Thank you to
 - NSAC, NSAC sub-committee
 - DNP, DNP Town Hall organizers
 - Nuclear science community





What does NSF want/need from the LRP?

- What works:
 - Identify compelling opportunities; communicate what makes them compelling
 - Identify major national facilities that enable high priority science; what does the US need to maintain leadership
- What does not work:
 - “NSF should do X ...”
 - Prescriptive language





Major Research Instrumentation (MRI)

- Two tracks:
 - Track 1 \$100 k < \$ from NSF < \$1 M; max of 2/university
 - Track 2 \$1 M < \$ from NSF < \$4 M; max of 1/university
- Two types: development and acquisition; “shovel ready”
- Deadlines & details
 - January 1 – January 19, annually (a window of opportunity)
 - <https://www.nsf.gov/od/oia/programs/mri/>
 - <https://www.nsf.gov/pubs/2018/nsf18513/nsf18513.htm>
 - *Contact your program directors well ahead of time to discuss & avoid pitfalls*
 - 30% cost share req'd for PhD granting institutions
 - Awards above \$1M compete across the entire Foundation





CHIPS and Science Act Passed Aug 2022

Sec. 10320. Mandatory Cost-Sharing

(a) WAIVER – The cost-sharing requirements under section 7036(c) of the ... Act for the Major Research Instrumentation Program and ... are waived for a period of 5 years following the date of enactment of this Act.

- Good news = PhD granting institutions won't need to (can't) provide cost-sharing 😊
- Bad news = PhD granting institutions won't need to (can't) provide cost-sharing 🚫😊
 - For many proposals: amount requested will increase by 30%
 - MRI budget ~ flat \$75M since 2001; exceptions in 2004 – 2012, 2018





Mid-scale Research Infrastructure

- Mid-scale Research Infrastructure-1 (MsRI-1) ~~NSF 21-505~~
 - Implementation = “shovel ready”; $\$6\text{M} < \text{total request} < \20M
 - Design/development = to prepare MsRI implementation proposal; $\$600,000 < \text{total request} < \20M
- Mid-scale Research Infrastructure-2 (MsRI-2) ~~NSF 21-537~~
 - Total request: $\$20\text{M} - \100M
 - “Shovel ready”
- Solicitations published in alternate years; next publication in FY23
- Solicitation scope: NSF-wide





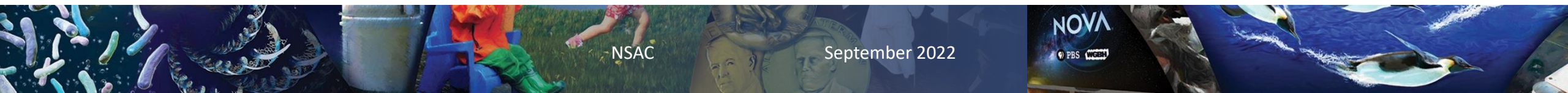
Funding Announcements

PHY Investigator Initiated Research NSF 21-593

All proposals submitted to the Division of Physics programs must go through this solicitation.

- **Deadlines:** First Tuesday in December for *Experimental & Theoretical Nuclear Physics*
→ **December 6, 2022 5 pm in your home institution's time zone**
- Follow instructions that are specific to this solicitation; **non-compliant proposals may be returned without review**
- Must conform to the NSF Proposal & Award Policies & Procedures Guide (PAPPG)
https://www.nsf.gov/pubs/policydocs/pappg22_1/index.jsp
 - Updated instructions regarding Current and Pending Support and Biographical Sketches of senior personnel

Questions – contact cognizant program director.





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



For the latest updates: <https://www.nsf.gov/physics>

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Physics (PHY)

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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