



## Program Descriptions that Require Proposal Preparation and Submission in Research.gov or Grants.gov

Innovating and migrating proposal preparation and submission capabilities from FastLane to Research.gov is part of the ongoing NSF information technology modernization efforts. Since the issuance of NSF [Important Notice No. 147](#) in September 2020, NSF has gradually been removing FastLane as a submission option in program solicitations to increase Research.gov proposal submissions. To further boost Research.gov proposal submissions and support the transition of proposal preparation from FastLane to Research.gov, NSF is also removing FastLane as a submission option for program descriptions and requiring use of Research.gov for proposal preparation and submission in response to those funding opportunities. **FastLane will be removed as a submission option from all funding opportunities when the *Proposal and Award Policies and Procedures Guide (PAPPG) (NSF 23-1)* is effective on January 30, 2023.** Grants.gov will remain a submission option for most NSF proposals.

The program descriptions listed below require proposal preparation and submission in Research.gov or Grants.gov and are no longer available in FastLane.

Since most program solicitations also require submission in Research.gov, proposers should pay close attention to the requirements identified in those specific funding opportunities.

Research.gov proposal training resources including Frequently Asked Questions (FAQs), video tutorials, and how-to guides are available on the Research.gov [About Proposal Preparation and Submission](#) page.

**Questions?** If you have IT system-related questions, please contact the NSF Help Desk at 1-800-381-1532 (7:00 AM - 9:00 PM ET; Monday - Friday except federal holidays) or via [rgov@nsf.gov](mailto:rgov@nsf.gov). Policy-related questions should be directed to [policy@nsf.gov](mailto:policy@nsf.gov).

**Instructions:** Scroll down to view the program descriptions by directorate or use the links below. This list is being continuously updated and more program descriptions will be added. Note that not all NSF directorates have active program description funding opportunities.

- [Computer and Information Science and Engineering \(CISE\)](#)
- [Education and Human Resources \(EHR\)](#)
- [Engineering \(ENG\)](#)
- [Geosciences \(GEO\)](#)
- [Mathematical and Physical Sciences \(MPS\)](#)
- [Social, Behavioral and Economic Sciences \(SBE\)](#)

Program Description Number	Program Description Name	Date Proposal Submissions Required in Research.gov or Grants.gov
<b>Computer and Information Science and Engineering (CISE)</b>		
PD 20-7684	<a href="#">Cyberinfrastructure for Emerging Science and Engineering Research (CESER)</a>	08/15/2022
<b>Education and Human Resources (EHR)</b>		
PD 21-7980	<a href="#">Advancing Innovation and Impact in Undergraduate STEM Education at Two-year Institutions of Higher Education</a>	06/01/2022
<b>Engineering (ENG)</b>		
PD 22-8084	<a href="#">Computational and Data-Enabled Science and Engineering (CDS&amp;E)</a>	12/01/2022
PD 22-7569	<a href="#">Dynamics, Control and Systems Diagnostics (DCSD)</a>	09/15/2022
PD 22-1340	<a href="#">Research in the Formation of Engineers (RFE)</a>	09/15/2022
PD 21-7643	<a href="#">Environmental Sustainability</a>	09/15/2022
PD 21-7236	<a href="#">Biophotonics</a>	09/15/2022
PD 21-1443	<a href="#">Fluid Dynamics</a>	09/15/2022
PD 21-1179	<a href="#">Nanoscale Interactions</a>	09/15/2022
PD 21-110Z	<a href="#">ECosystem for Leading Innovation in Plasma Science and Engineering (ECLIPSE)</a>	12/01/2022
PD 20-7909	<a href="#">Biosensing</a>	09/15/2022
PD 20-7644	<a href="#">Electrochemical Systems</a>	09/15/2022
PD 20-5345	<a href="#">Engineering of Biomedical Systems</a>	09/15/2022
PD 20-5342	<a href="#">Disability and Rehabilitation Engineering (DARE)</a>	09/15/2022
PD 20-1491	<a href="#">Cellular and Biochemical Engineering</a>	09/15/2022
PD 20-144Y	<a href="#">Foundational Research in Robotics (FRR)</a>	09/15/2022
PD 20-1440	<a href="#">Environmental Engineering</a>	09/15/2022
PD 20-1417	<a href="#">Interfacial Engineering</a>	09/15/2022

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PD 20-1415	<a href="#">Particulate and Multiphase Processes</a>	09/15/2022
PD 20-1407	<a href="#">Combustion and Fire Systems</a>	09/15/2022
PD 20-1406	<a href="#">Thermal Transport Processes</a>	09/15/2022
PD 20-1403	<a href="#">Process Systems, Reaction Engineering, and Molecular Thermodynamics</a>	09/15/2022
PD 20-1401	<a href="#">Catalysis</a>	09/15/2022
PD 19-7479	<a href="#">Biomechanics and Mechanobiology (BMMB)</a>	09/15/2022
PD 19-1638	<a href="#">Humans, Disasters, and the Built Environment (HDBE)</a>	09/15/2022
PD 19-1631	<a href="#">Civil Infrastructure Systems (CIS)</a>	09/15/2022
PD 19-1630	<a href="#">Mechanics of Materials and Structures (MOMS)</a>	09/15/2022
PD 19-088Y	<a href="#">Advanced Manufacturing (AM)</a>	09/15/2022
PD 19-073Y	<a href="#">Engineering for Civil Infrastructure (ECI)</a>	09/15/2022
PD 19-072Y	<a href="#">Engineering Design and System Engineering (EDSE)</a>	09/15/2022
PD 19-058Y	<a href="#">Mind, Machine and Motor Nexus (M3X)</a>	09/15/2022
PD 19-006Y	<a href="#">Operations Engineering (OE)</a>	09/15/2022
PD 18-7607	<a href="#">Energy, Power, Control, and Networks (EPCN)</a>	09/15/2022
PD 18-7564	<a href="#">Communications, Circuits, and Sensing-Systems (CCSS)</a>	09/15/2022
PD 18-1517	<a href="#">Electronics, Photonics and Magnetic Devices (EPMD)</a>	09/15/2022
<b>Geosciences (GEO)</b>		
PD 98-5750	<a href="#">Magnetospheric Physics</a>	06/15/2022
PD 98-1680	<a href="#">Ocean Technology and Interdisciplinary Coordination</a>	06/15/2022
PD 98-1670	<a href="#">Chemical Oceanography</a>	06/15/2022
PD 98-1650	<a href="#">Biological Oceanography</a>	06/15/2022

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PD 98-1610	<a href="#">Physical Oceanography</a>	06/15/2022
PD 98-1530	<a href="#">Paleoclimate</a>	06/15/2022
PD 98-1524	<a href="#">Atmospheric Chemistry</a>	06/15/2022
PD 98-1523	<a href="#">Solar Terrestrial</a>	06/15/2022
PD 98-1521	<a href="#">Aeronomy</a>	06/15/2022
PD 22-1529	<a href="#">Facilities for Atmospheric Research and Education (FARE)</a>	06/15/2022
PD 22-1525	<a href="#">Physical and Dynamic Meteorology (PDM)</a>	06/15/2022
PD 21-7700	<a href="#">Education Programs in Atmospheric and Geospace Sciences</a>	06/15/2022
PD 21-178Y	<a href="#">Geoscience Opportunities for Leadership in Diversity (GOLD)</a>	06/15/2022
PD 17-1620	<a href="#">Marine Geology and Geophysics (MG&amp;G)</a>	06/15/2022
PD 14-5720	<a href="#">Ocean Drilling Program (ODP)</a>	06/15/2022
PD 06-5740	<a href="#">Climate and Large-Scale Dynamics (CLD)</a>	06/15/2022
PD 04-4202	<a href="#">Geospace Facilities (GF)</a>	06/15/2022
<b>Mathematical and Physical Sciences (MPS)</b>		
PD 22-8069	<a href="#">Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences (CDS&amp;E-MSS)</a>	01/03/2023
PD 22-7334	<a href="#">Mathematical Biology</a>	01/09/2023
PD 22-1267	<a href="#">Topology</a>	08/01/2022
PD 22-1265	<a href="#">Geometric Analysis</a>	08/01/2022
PD 20-1281	<a href="#">Analysis</a>	10/15/2022
PD 20-1264	<a href="#">Algebra and Number Theory</a>	11/01/2022
PD 20-1260	<a href="#">Mathematical Sciences Infrastructure Program</a>	10/15/2022
PD 20-1242	<a href="#">Plasma Physics</a>	08/01/2022

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PD 18-7970	<a href="#">Combinatorics</a>	10/15/2022
PD 18-7222	<a href="#">Crosscutting Activities in Materials Research (XC)</a>	06/15/2022
PD 18-5115	<a href="#">Windows on the Universe: The Era of Multi-Messenger Astrophysics (WoU-MMA)</a>	12/01/2022
PD 18-1269	<a href="#">Statistics</a>	08/01/2022
PD 18-1268	<a href="#">Foundations</a>	10/15/2022
PD 18-1263	<a href="#">Probability</a>	10/15/2022
PD 16-1271	<a href="#">Computational Mathematics</a>	08/01/2022
PD 16-1266	<a href="#">Applied Mathematics</a>	08/01/2022
<b>Social, Behavioral and Economic Sciences (SBE)</b>		
PD 98-1391	<a href="#">Archaeology and Archaeometry</a>	09/03/2022
PD 98-1331	<a href="#">Sociology</a>	09/01/2022
PD 98-1321	<a href="#">Decision, Risk and Management Sciences (DRMS)</a>	09/01/2022
PD 98-1320	<a href="#">Economics</a>	09/01/2022
PD 98-1311	<a href="#">Linguistics</a>	08/01/2022
PD 22-1332	<a href="#">Social Psychology</a>	08/01/2022
PD 21-128Y	<a href="#">Law &amp; Science (LS)</a>	09/01/2022
PD 19-127Y	<a href="#">Science of Learning and Augmented Intelligence (SL)</a>	08/01/2022
PD 19-125Y	<a href="#">Science of Science: Discovery, Communication, and Impact (SoS:DCI)</a>	09/15/2022
PD 19-120Y	<a href="#">Accountable Institutions and Behavior (AIB)</a>	09/01/2022
PD 19-118Y	<a href="#">Security and Preparedness (SAP)</a>	09/01/2022
PD 15-1699	<a href="#">Cognitive Neuroscience (CogNeuro)</a>	09/01/2022
PD 11-8031	<a href="#">Science of Organizations (SoO)</a>	09/15/2022

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PD 09-7252	<a href="#">Perception, Action &amp; Cognition (PAC)</a>	09/01/2022
PD 08-1698	<a href="#">Developmental Sciences (DS)</a>	08/01/2022