

NSF PIPP Development Grant Virtual Office Hours

September 2, 2021, 2 – 3 PM EDT
September 10, 2021 3 – 4 PM EDT

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Solicitation page: <https://www.nsf.gov/pubs/2021/nsf21590/nsf21590.htm>



NSF PIPP Development Grant Virtual Office Hours

Questions? Put them in the chat or raise your hand

After the VOH, send questions to PIPP@nsf.gov until Sept 23, 2021



PIPP Phase I: Development Grant (NSF 21-590)

- Supports planning activities for fundamental research and capabilities needed to tackle grand challenges in infectious disease pandemics through prediction and prevention
- Due October 1, 2021
- 18 months, up to \$1 million/project
- Possibly leading to future Phase II (Center-scale) proposals



PIPP Phase I: Development Grant (NSF 21-590)

- An ambitious and forward-looking scientific grand challenge (GC)
- Includes both team building and research descriptions
- Diverse, multi-disciplinary, and potentially multi-organizational team
- A plan for scaling to center operations
- Project Management Plan



PIPP Phase I: Development Grant (NSF 21-590)

- Proposals must explicitly describe a **grand challenge (GC)** in infectious disease pandemics in areas of prediction and prevention.
- This can be an infectious disease in ANY living system (plants, animals, humans, other microbes, etc.).
- Proposals must describe an innovative vision for addressing the grand challenge – What is the overarching problem/hurdle? What is the potential for transformative research outcomes that go beyond status quo?



PIPP Phase I: Development Grant (NSF 21-590)

- **Research:** Research can be “pilot projects” that begin to address subsets of Grand Challenge problem across sub-disciplines.
- **Team Building:** Proposal describes a rationale that justifies the need for a collective effort of multidisciplinary team of scientists to address grand challenge.
- Ideally, grand challenge problem will span research across disciplines (NSF PIPP: BIO, CISE, ENG and SBE directorates).
- GC should be commensurate with Center-scale problem.



What makes a Grand Challenge?

We think the research community (you) is best positioned to identify grand challenges.

The key is to explicitly state the GC, discuss **why** it is a grand challenge, why it is unique, and clearly link your proposed planning to the GC.

Need inspiration? NSF held four inter-connected workshops in which members of different communities came together to identify problems/grand challenges/hurdles over a full timeline of a developing pandemic event preemergence stage, localized emergence stage, pandemic emergence stage.

Grand challenges ideas for PIPP were identified throughout the full timeline of a developing pandemic event, and include the **preemergence stage**, the **localized emergence stage**, and the **pandemic emergence stage**.



What is NOT a Grand Challenge:

- Projects limited to specialized research groups pursuing independent projects that are not synthetically integrated;
- A project that can be executed by a single PI;
- Projects that do not engage teams with balanced participation from computer and information science, biology, engineering, and social, behavioral, and economic sciences.



Merit Review Criteria

- Intellectual Merit and Broader Impacts
- Solicitation-specific criteria:
 - How well does the proposed project address the grand challenge?
 - Does the proposal bring together complementary expertise, build on leading-edge research across multiple disciplines, connect and contribute to a broader intellectual context of work, and develop synergistic links to related efforts as appropriate?
 - Does the Project Management Plan address all required elements ?



PIPP Phase I Solicitation, Other requirements

- Title must begin with "PIPP Phase I," followed by a colon, then the title of the project.
- A person may be PI/co-PI on only ONE proposal.
- After submission of your proposal, send a single Microsoft PowerPoint slide summarizing the vision of your PIPP Planning Grant proposal to PIPP@nsf.gov.
- For multiple institutions: Send in ONE proposal with sub-awards to different institutions
- No Letters of Intent required
- Project Management plan is REQUIRED



Investigations that are outside the scope of this PIPP announcement include:

- Projects limited to specialized research groups pursuing independent projects that are not synthetically integrated;
- Projects that do not identify an over-arching GC problem motivated by PIPP;
- Projects that do not engage teams with balanced participation from computer and information science, biology, engineering, and social, behavioral, and economic sciences



Timeline

- Proposals due by October 1, 2021, 5 PM local time:
 - For multiple institutions: one proposal with sub-awards to different institutions
 - The PAPPG category of: Collaborative proposals from multiple institutions CANNOT be engaged here.
 - No Letters of Intent required
- Aim to make awards by end of March 2022



For more information:

- Funding opportunity page with links to solicitation and announcements:
https://nsf.gov/funding/pgm_summ.jsp?pims_id=505908
- Frequently Asked Questions (FAQs) and answers are provided on the solicitation webpage.
- Send questions and/or ONE PAGE prospectus to the following Email:
PIPP@nsf.gov **UNTIL SEPT 23 (Note: extremely high volume now)**
- A recording and transcript of the VOH, along with the slides, will be accessible from the event page shortly after conclusion of the VOH.



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VOH next week: September 10, 2021 3 – 4 PM EDT

