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Notes: Delete all grey background sections with maroon font before submitting.

- **Format and Font:** Arial (not Arial Narrow), Courier New, or Palatino Linotype at a font size of 11 points or larger; Times New Roman at a font size of 11 points or larger; or Computer Modern family of fonts at a font size of 11 points or larger. A font size of less than 10 points may be used for mathematical formulas or equations, figures, tables, or diagram captions, and when using a Symbol font to insert Greek letters or special characters. Other fonts may be used for mathematical formulas, equations, or when inserting Greek letters or special characters, however the text must still be readable.
- **Page:** No more than six lines of text within a vertical space of one inch. Margins, in all directions, must be at least an inch. No proposer-supplied information may appear in the margins. Paper size must be no larger than standard letter paper size (8 1/2 by 11"). These requirements apply to all uploaded sections of a proposal, including supplementary documentation.
- **URLs:** No URLs or Links are allowed in any of the documents, except the references listed in the document and sketches. All products and publications listed in the biosketches must have a DOI, URL, or Persistent Identifier. Do not add page numbers to any documents.

AMPS: Proposal Title

Proposal titles should begin with the four characters "AMPS:"

Project Description (15-page limit)

1. Overview, Objectives, and Significance

PAPPG: The Project Description should provide a clear statement of the work to be undertaken and must include the objectives for the period of the proposed work and expected significance.

2. The State of the Art and Motivation

PAPPG: The Project Description should provide the relationship of this work to the present state of knowledge in the field.

3. Research Plan

PAPPG: The Project Description should outline the general plan of work, including the broad design of activities to be undertaken, and, where appropriate, provide a clear description of experimental methods and procedures. Proposers should address what they want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful. The project activities may be based on previously established and/or innovative methods and approaches, but in either case must be well justified. These issues apply to both the technical aspects of the proposal and the way in which the project may make broader contributions.

4. The Qualification and Responsibilities of the Project Team

5. Project Timeline and Evaluation Plan

6. Broader Impacts

[PAPPG](#): The Project Description must contain **a separate section** labeled "Broader Impacts."

Broader impacts may be accomplished through the research itself, through the activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. NSF values the advancement of scientific knowledge and activities that contribute to achievement of societally relevant outcomes. Such outcomes include, but are not limited to: full participation of women, persons with disabilities, and other underrepresented groups in science, technology, engineering, and mathematics (STEM); improved STEM education and educator development at any level; increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society; development of a diverse, globally competitive STEM workforce; increased partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the United States; and enhanced infrastructure for research and education.

7. Results from Prior NSF Support

[PAPPG](#): This section of the proposal Project Description is only applicable to individuals requesting funding from NSF.

In cases where the prospective PI or any Co-PI has received more than one award (excluding amendments to existing awards), please report only the one award that is most closely related to the proposal. Cf. [PAPPG Chapter II.D.2.d.](#)