**Cover Page**

|  |  |
| --- | --- |
| DOE National Laboratory |  |
| Street Address/City/State/Zip: |  |
| Principal Investigator (PI): |  |
| Position Title of PI: |  |
| Business Mailing Address of PI: |  |
| Telephone Number of PI: |  |
| Email of PI: |  |
| Program Announcement Number: | LAB 12-751 |
| DOE/Office of Science Program Office (ASCR, BER, BES, FES, HEP, or NP): |  |
| Topic Area\*: |  |
| Topic Area Program Manager: |  |
| Year Doctorate Awarded: |  |
| Number of Times Previously Applied†: |  |
| PAMS Preproposal Number: |  |
| PECASE Eligible\*\*: (Yes or No) |  |

*\* The topic area can be found in the summary section of this Program Announcement.*

*† Indicate how many times the PI has previously submitted a full proposal in the Office of Science Early Career Research Program. Participation in the competition is defined as submission of a full, formal proposal. A PI who has participated in three past Office of Science Early Career Research competitions is not eligible.*

*\*\* The White House Office of Science and Technology Policy may ask the agencies each year to nominate candidates for the Presidential Early Career Awards for Scientists and Engineers (PECASE). A Principal Investigator is PECASE-eligible if he or she is a U.S. citizen, U.S. national, or permanent resident and if she or he has not received a PECASE previously through any agency. Investigators from the top proposals in the Office of Science Early Career Research Award Competition may be nominated for PECASE.*

# Project Summary/Abstract

*The project summary/abstract must contain a summary of the proposed activity suitable for public dissemination. It should be a single page that identifies the national laboratory, the principal investigator, the project title, the objectives of the project, a description of the project, including methods to be employed, and the potential impact of the project (i.e., benefits, outcomes). The document should be written to appeal to a general audience and not just scientific experts in the specialty of the proposed research. This document must not include any proprietary or sensitive business information as the Department may make it available to the public. The project summary must not exceed one page when printed using standard 8.5” by 11” paper with 1” margins (top, bottom, left and right) with font not smaller than 11 point.*

Text

# Narrative

**Thesis Statement** Address how the proposed research relates to the mission of the DOE Office of Science, which is to deliver the scientific discoveries and major scientific tools that transform our understanding of nature and advance the energy, economic, and national security of the United States.

*The body of the Project Narrative must not exceed 15 pages when printed using standard 8.5” by 11” paper with 1 inch margins (top, bottom, left, and right). The font must not be smaller than 11 point. Do not include any Internet addresses (URLs) that provide information necessary to review the proposal, because the information contained in these sites will not be reviewed. Each proposal should be in a single PDF file.*

## Background/Introduction

*The Project Narrative comprises the research plan for the project. It should contain enough background material in the Introduction,*

Text

### Relevant Literature

*including review of the relevant literature, to demonstrate sufficient knowledge of the state of the science.*

Text

## Specific Objectives/Aims of the Proposed Project

*The narrative should provide a clear, concise statement of the specific objectives/aims of the proposed project.*

Text

### Relevance to the Mission of the Name of Specific Program (this is review criterion 5 found on pages 43 and 44 of Program Announcement LAB 12-751)

*5. Relevance to the mission of the specific program (e.g., ASCR, BER, BES, FES, HEP, or NP) to which the proposal is submitted. How does the proposed research contribute to the mission of the program in which the proposal is being evaluated? Refer to Program Announcement DOE National Laboratories LAB 12-751 for program area mission statements. See pages 44 and 45 and the Summary that comprises pages 4-39.*

Text

## Description and Justification of the Proposed Project

*The major part of the narrative should be devoted to a description and justification of the proposed project,*

Text

### Scientific and/or Technical Merit of the Project (this is review criterion 1 found on pages 43 and 44 of Program Announcement LAB 12-751)

*1. Scientific and/or Technical Merit of the Project. What is the scientific innovation of proposed research? How does the proposed research compare with other research in its field, both in terms of scientific and/or technical merit and originality? How might the results of the proposed research impact the direction, progress, and thinking in relevant scientific fields of research? What is the likelihood of achieving influential results?*

Text

### Details of the Methods to be Utilized

*including details of the method to be used.*

Text

#### Appropriateness of the Proposed Method or Approach (this is review criterion 2 found on pages 43 and 44 of Program Announcement LAB 12-751)

*2. Appropriateness of the Proposed Method or Approach. Does the proposed research employ innovative concepts or methods? How logical and feasible are the research approaches? Are the conceptual framework, methods, and analyses well justified, adequately developed, and likely to lead to scientifically valid conclusions? Does the applicant recognize significant potential problems and consider alternative strategies?*

Text

## Timeline for Major Activities of the Proposed Project

*It should also include a timeline for the major activities of the proposed project.*

Text

# Appendix 1: Biographical Sketch

*Provide a biographical sketch for the Principal Investigator (PI). As part of the sketch, provide information that can be used by reviewers to evaluate the PI’s potential for leadership within the scientific community. Examples of information of interest are invited and/or public lectures, awards received, scientific program committees, conference or workshop organization, professional society activities, special international or industrial partnerships, reviewing or editorship activities, or other scientific leadership experiences. This information is required for the Principal Investigator submitting the proposal. Provide the biographical sketch information as an appendix to your project narrative. This appendix will not count in the project narrative page limitation. The biographical sketch is limited to a maximum of three pages when printed on 8.5” by 11” paper with 1 inch margins (top, bottom, left, and right) with font not smaller than 11 point and* ***must include****:*

*Name*

Text

*Education and Training.* *Undergraduate, graduate and postdoctoral training, provide institution, major/area, degree and year.*

Text

*Research and Professional Experience*. *Beginning with the current position list, in chronological order, professional/academic positions with a brief description.*

Text

*Publications. Provide a list of up to 10 publications most closely related to the proposed project.*

*For each publication, identify the names of all authors (in the same sequence in which they*

*appear in the publication), the article title, book or journal title, volume number, page numbers,*

*year of publication, and website address if available electronically. Patents, copyrights and*

*software systems developed may be provided in addition to or substituted for publications. An*

*abbreviated style such as the Physical Review Letters (PRL) convention for citations (list only*

*the first author) may be used for publications with more than 10 authors.*

Text

*Synergistic Activities.* *List no more than 5 professional and scholarly activities related to the effort proposed. Some examples might be invited and/or public lectures, awards received, scientific program committees, conference or workshop organization, professional society membership and/or activities, special international or industrial partnerships, reviewing or editorship activities, or other scientific leadership experiences.*

Text

*Collaborators and Co-editors*: *List in alphabetical order all persons, including their current organizational affiliation, who are, or who have been, collaborators or co-authors with the Principal Investigator on a research project, book or book article, report, abstract, or paper during the 48 months preceding the submission of the proposal. For publications or collaborations with more than 10 authors or participants, only list those individuals in the core group with whom the Principal Investigator interacted on a regular basis while the research was being done. Also, include those individuals who are currently or have been co-editors with the Principal Investigator of a special issue of a journal, compendium, or conference proceedings during the 24 months preceding the submission of the proposal. If there are no collaborators or co-editors to report, state “None.”*

Text

*Graduate and Postdoctoral Advisors and Advisees*: *List the names of the Principal Investigator's own graduate advisor(s) and principal postdoctoral sponsor(s) and their current organizational affiliations. Also list the names of the Principal Investigator's graduate students and postdoctoral associates during the past five years and their current organizational affiliations.*

Text

*N.B. When preparing this Appendix, please keep in mind that it will help address the review criteria 3 and 6 (found on pages 43 and 44 of Program Announcement LAB 12-751): Please provide the reviewers sufficient information about your qualifications and, if it isn’t obvious, what the recognition that you’ve been given actually means.*

Text

*3*. *Competency of Proposed PI.* *What are the past performance and potential of the Principal Investigator (PI)? How well qualified is the research team to carry out the proposed research?*

Text

*6*. *Potential for leadership within the scientific community.**Scientific leadership can be defined very broadly and can include direct research contributions. How has the PI demonstrated the potential for scientific leadership and creative vision? How has the PI been recognized as a leader?*

Text

# Appendix 2: Current and Pending Support

*Provide a list of all current and pending support (both Federal and non-Federal) for the Principal Investigator (PI) for ongoing projects and pending proposals. For each organization providing support, show the total award amount for the entire award period (including indirect costs) and the number of person-months per year to be devoted to the project by the PI. Concurrent submission of a proposal to other organizations for simultaneous consideration will not prejudice its review. This appendix will not count in the project narrative page limitation.*

| **Current and Pending Support for PI** | **Number of person-months per year** |
| --- | --- |
| Total award amount, including indirect costs for first project | Number of person-months per year for first project |
| Total award amount, including indirect costs for second project, etc. | Number of person-months per year for second project, etc. |
| *If the PI has submitted a similar research proposal to an early career program at another agency or foundation, she or he should provide a few sentences explaining the similarities and/or differences with the current Early Career Research Program proposal.*  Text | |

# Appendix 3: Bibliography and References Cited

*Give full bibliographic entries for each publication cited in the narrative. Each reference must include the names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication.*

*Include only bibliographic citations. Principal investigators should be especially careful to follow scholarly practices in providing citations for source materials relied upon when preparing any section of the proposal. An abbreviated style such as the Physical Review Letters (PRL) convention for citations (list only the first author) may be used for publications with more than 10 authors. This appendix will not count in the project narrative page limitation.*

Text

# Appendix 4: Facilities and Other Resources

*This information is used to assess the capability of the organizational resources available to perform the effort proposed. Identify the facilities to be used (Laboratory, Animal, Computer, Office, Clinical and Other). If appropriate, indicate their capacities, pertinent capabilities, relative proximity, and extent of availability to the project. Describe only those resources that are directly applicable to the proposed work. Describe other resources available to the project (e.g., machine shop, electronic shop) and the extent to which they would be available to the project. This appendix will not count in the project narrative page limitation.*

Text

*N.B. When preparing this Appendix, please keep in mind that it will help address the review criterion 3 (found on pages 43 and 44 of Program Announcement LAB 12-751):*

*3.**Adequacy of Proposed Resources. Does the proposed work take advantage of unique facilities and capabilities? Are the research environment and facilities adequate for performing the research?*

Text

# Appendix 5: Equipment

*List major items of equipment already available for this project and, if appropriate, identify location and pertinent capabilities. This appendix will not count in the project narrative page limitation.*

*N.B. When preparing this Appendix, please keep in mind that it will help address the review criterion 3 (found on pages 43 and 44 of Program Announcement LAB 12-751):*

*3. Adequacy of Proposed Resources*

*Does the proposed work take advantage of unique facilities and capabilities? Are the research environment and facilities adequate for performing the research?*

Text

# Appendix 6: Other Attachments

*The Director’s Letter can be inserted here or at the beginning of the proposal file. It should be addressed to the relevant technical point of contact from the announcement.*

*Information not easily accessible to a reviewer may be included in an appendix, but do not use the appendix to circumvent the page limitations of the proposal. Reviewers are not required to consider information in an appendix, and reviewers may not have time to read extensive appendix materials with the same care they would use with the proposal proper. Do not include scientific publications. Although the preference of this program is to support PI-led efforts without paid collaborators, if a funded or unfunded collaboration is proposed, an optional letter of collaboration may be included in this appendix. Letters of collaboration should state the intent to participate and nothing else. They should NOT be written as recommendation or endorsement letters, which are not allowed. This appendix will not count in the project narrative page limitation. Each optional letter of collaboration may contain two and only two sentences and must use the following format:*

Dear <Principal Investigator Name>:

If your proposal entitled, “<Proposal Name>,” is selected for funding under the DOE Office of Science Early Career Research Program, it is my intent to collaborate in this research by <Complete Sentence With a Very Short Description of What the Collaborator Offers to Do or Provide>. Thank you for the opportunity to participate.

Sincerely,

<Collaborator’s Name and Signature Block>