***Technical Proposal Form***

**FISCAL YEAR 2023**

**Institute for Cyber-Physical Infrastructure and Energy (I-CPIE)**, **Lehigh University**

***INSTRUCTIONS:*** *Please use this form to submit your PITA proposal. Fill-in complete answers for all questions. Technical proposals are limited to 4 pages, excluding industry support letters. Submit complete proposals along with your completed PITA Cost Proposal Form (see below)* ***no later than Friday, October 21, 2022.***

**1. Project Title:**

Is this project a renewal or continuation of a previous PITA project *(check one)*

yes[ ]  no[ ]

Identify project type *(check one)*

***(NOTE: If “SEED” project above is check-marked provide additional detail in Follow-on Funding item #7 below.)***

[ ]  Collaborative [ ]  Seed

Identify the Technical Focus Area:

 [ ]  Transportation Systems

 [ ]  Telecommunications and Information Technology

 [ ]  Facilities

 [ ]  Water Systems

 [ ]  Energy and Environment

 [ ]  Public Health and Medicine

 [ ]  Hazard Mitigation and Disaster Recovery

 [ ]  Other\*

\*If Other, please provide a brief description of the technical focus area:

**2.** **Lehigh** **Research Team:**

***(Projects should involve collaboration of 2 or more faculty and multiple students).***

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| **Principal Investigator(s)** | **Department**  | **Email** |
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| **Co-Principal Investigator(s)** | **Department**  | **Email** |
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| **Graduate Student(s)** | **Degree Program** | **Anticipated Completion** | **Curriculum/Department** |
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| **Undergraduate Student(s)** | **Degree Program** | **Anticipated Completion** | **Curriculum/Department** |
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**3. Non-Lehigh Project Participants:**

***(Projects should include Pennsylvania companies and/or government agencies).***

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| **Industrial Partner(s)** | **Address (including 9 digit zip code)** |
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| **Governmental Partner(s)** | **Address (including 9 digit zip code)** |
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| **University Partner(s)** | **Address (including 9 digit zip code)** |
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***Do any of the PI(s) or Co-PI(s) have a financial interest in any of the industrial partner companies listed above?*** (Investigators may have a financial interest in partner companies but such relationships must be disclosed in the application.)

*Letters of support are required to be attached to this proposal from all participating Pennsylvania companies on company letterhead. Participating companies that do not provide a support letter will not be counted as an industrial partner during the proposal selection process. Support letter(s) should include impact of PITA funding on company or on a new technology/process. This language may be included in reporting to the PITA program sponsor.*

**4. Contact Information for Non-Lehigh Project Participants (*from #3 above*):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Title** | **Organization** | **Phone/Email** |
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**5. Executive Summary (Abstract) of Project:**

 ***(Limit of 300 words; Note that******Executive Summary will be used for public dissemination if project is awarded)***

**6. Description of the Project:**

 ***(Limited to 2 pages, excluding any figures/tables, which should be included in separate attachment)***

**7. Anticipated Results and Strategy for Follow-on Funding of the Project:**

**8. Relationship to PITA Goals and Potential Impacts on PA:**

**9. Past Results Enabled by PITA Funding:**

**10. Budget:** Please use separate **PITA FY 2023 Cost Proposal Form** to submit this information.

 Note the leverage guidelines of a minimum of $1.00 leverage funding for $1.00 of PITA funding. Partner leverage funding should be outlined in a partner company support letter on the company’s letterhead, with leverage contribution identified (cash or in-kind), quantified, and described.