



Pennsylvania Infrastructure Technology Alliance

*A Commonwealth, University and Industry Partnership*

Carnegie Mellon University – Lehigh University

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## **Technical Proposal Template**

**Project Title:**

**Principal Investigator:**

**Executive Summary/Abstract (limited to 200 words):** Intended for a lay audience. Briefly discuss (a) motivation and industry-academy collaboration; (b) objectives; (c) proposed approach; (d) expected results; (e) impact of the project to the industry, and to science, technology, and society with specific emphasis to PA.

**Anticipated Results (limited to 200 words):** What are your expected results? How does the project contribute to solutions for real-world applications? Be specific and provide tangible results.

**Strategy for Follow-on Funding for the Project (limited to 300 words):** If the project is successful, how might the research outcomes be carried forward and mature with the industry partner and/or within the university? How can this work extend beyond the award period and enable/attract federal funding (please be very specific)? Additional details regarding the industry impact should be included in the industry partner's letter of support. Specifically, letters should address how the project will help the company address a critical challenge through a tech dev/process improvement project and how the project will advance larger industry objectives.

**Broader Impacts to the PA Economy and Society (limited to 200 words):** Discuss the broader impacts of your research and development. How will the project bring advances to industrial practice? How will it impact society?

**Recent PITA Funding and Associated Results and Products (limited to 300 words):** Summarize the recent PITA funding (in the last 3 years) and the associated follow-on funding, publications (with the PITA acknowledgment), student involvement, and continued industrial engagement.

**Company Engagement (limited to 200 words):** What are the engagement opportunities for the student(s) working on the project with the industry partner(s), e.g., conference calls, visits to the company facilities, etc.? Describe how the student will interact with the company. Discuss plans for the company's engagement with the project beyond this award.

**Describe the Collaborative Aspects of the project (limited to 150 words)**

**Describe the Nature of the Leveraged Funds and the Relationship to the Project (limited to 150 words)**

**Budget Justification (limited to 200 words)** Outline the need for PITA funding for personnel/materials, etc. in the project.

**Description of the Project (limited to 3 pages including any figures/tables)** Use 1 inch margins for the pages. Merge pages into this document to submit as a single PDF.