

Impactful Resilient Infrastructure Science and Engineering (IRISE)

-Project Scope of Work- IRISE Year 7 Annual Work Program

SUMMARY PAGE

Project Title: Advancing Regional Comprehensive Stormwater Management through Cross Jurisdictional Coordination and Cooperation

Person Submitting Proposal: Daniel J. Bain

Proposed Funding Period: 01/01/2025 - 12/31/2025

Project Duration: 12 months

Project Cost: \$ 41,000 (does not include overhead)

Project Title: Advancing Regional Comprehensive Stormwater Management through Cross Jurisdictional Coordination and Cooperation

Problem Statement: Discussions spurred by the 2023 IRISE Stormwater Symposium identified several important gaps that challenge Southwestern Pennsylvania's stormwater management. 1) The complicated jurisdictional landscape creates barriers to effective stormwater management, as the construction and maintenance of transportation corridors have to meet a wide range of storm water regulations even over a small portion of a county.; 2) The community's ability to contribute to emerging regional planning efforts can be improved through training and coordinated information exchange.; and 3) Regional stormwater management efforts would be enhanced through a regular meeting similar to the meeting Villanova runs in the Philadelphia area.

Project Objectives: In year 7, we propose a coordinated set of stormwater meetings ranging from lunch and learn training sessions to a full blown second Symposium. These meetings would vary in scope but be aligned in purpose to address the challenges identified in the 2023 Symposium. We envision three primary objectives: 1) Coordination of a series of lunch time training session on pertinent stormwater topics.; 2) A series of consensus building meetings between transportation professionals, local officials, and the wider stormwater community to examine the stormwater regulation landscape and determine best practices that could improve stormwater management in cross-jurisdictional infrastructure.; and 3) A Year 7 stormwater symposium to maintain momentum in these stormwater conversations.

Project Scope: This series would include 4 training sessions, a series of ~2-3 consensus building meetings, and the stormwater symposium. As in the initial symposium planning process, these programs would be developed in close coordination with an IRISE project panel including members from regional entities involved at the intersection of transportation, governance, and stormwater management. In addition, this work would continue close collaboration with the Pittsburgh Water Collaboratory, a key partner at Pitt for engaged research on stormwater. The symposium would be held late in the year and will include opportunities to summarize and evaluate progress over the year and envision future iterations of stormwater coordination and cooperation.

Task Statements:

This seminar will be realized through the completion of the following tasks:

Task A: Conduct series of consensus building meetings

This task will gather regional stakeholders and experts on stormwater to build consensus on topics growing out of the 2023 IRISE Stormwater Symposium. These consensus building meetings will be based upon the Pittsburgh Water Collaboratory's highly successful meetings 2018-2019 consensus building meetings <https://www.water.pitt.edu/research-resources/community-consensus-reports>, albeit a simplified process (i.e., we do not expect to publish a report growing out of each meeting (though results will be included in the final report) and meeting format may vary from the format used in those meetings). Meetings will be short to allow wide participation and be attendee driven.

We envision 2-3 meetings, tentatively focused on the following topics:

- 1) Regional Stormwater Management Training Needs
- 2) Challenges and Solutions in Cross-Jurisdictional Stormwater Policy
- 3) Planning the Symposium (similar to the subject matter expert meeting conducted in the Year 5 project)

Task B: Offer a set of Lunch and Learn opportunities on Stormwater Topics

We will execute a series of ~3-4 lunch and learn sessions (including opportunity for PDH) based on the first consensus meeting outlined in Task A. We envision these sessions will be virtual and students at the University of Pittsburgh strongly encouraged to participation.

Task C: Stormwater Symposium

We will host a symposium based on the outcome of the 2023 symposium and the consensus meetings outlined in Task A. We envision this symposium will take place at the University of Pittsburgh during late 2025, but within the semester to maximize student participation.

Task D: Document Seminar and Archive Relevant Content

At a minimum, seminar schedule and presentation abstracts will be organized and placed on the IRISE website for future reference of participants and the wider community. Dependent on ultimate format and content, additional materials may be included in the archive.

Task E: Final Report

A *brief* report documenting the planning process (e.g., participants, important decision points), consensus results, lunch and learn content, symposium content, and lessons learned will be submitted to IRISE approximately a month after the seminar occurs.

Deliverables:

Task A: Summary reports to IRISE Steering Committee of consensus findings [begin immediately upon notice to proceed]

Task B: A set of lunch and learn opportunities [begin approximately 1-2 months after notice to proceed]

Task C: A seminar held at the University of Pittsburgh, focusing on storm water infrastructure [approximately 11 months from notice to proceed]

Task D: Web curation of seminar materials on IRISE website [12 months from notice to proceed]

Task E: A brief report documenting the planning process, seminar events, and lessons learned during the process. [12 months from notice to proceed]

Key Personnel:

Principal Investigator: Daniel J. Bain

Other Key Staff: Megan Lange, Jonathan Burgess

Other Personnel:

Grad Students: N/A

Proposed Person-Hours by Task:

Team Member	Task A	Task B	Task C	Task D	Task E	Total
Key Project Team Members, Estimated Hours Per Task						
Daniel Bain	10	10	10	1	10	52
Megan Lange	22	22	22	4	10	80
Jon Burgess	6	6	6	0	2	20
Total	38	38	38	5	22	152

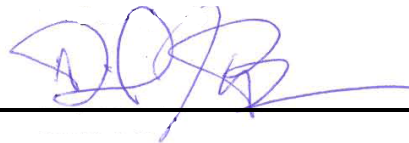
Schedule:

Months	2025					
	JanFeb	MarApr	MayJun	JulAug	SepOct	NovDec
Task A:	■		■	■		
Task B:		■	■		■	
Task C:						■
Task D:						■
Task E:						■
Task F:						■

Budget: The total project cost is \$41,000.

Please see attached budget.

Acknowledged By:



Name
Principal Investigator