

PI/co-PI/Senior Personnel: Borrelli, R. A.

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Secure Cyberspace and Resilient Industrial Systems Workforce Development

Proposal/Award Number (if available):

Source of Support: Idaho Global Entrepreneurial Mission Initiative

Primary Place of Performance: Idaho Falls Center for Higher Education

Project/Proposal Support Start Date (if available): 07/2022

Project/Proposal Support End Date (if available): 06/2023

Total Award Amount (including Indirect Costs): \$693,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.45
2023	0.45

Overall Objectives: Secure Cyberspace and Resilient Industrial Systems Workforce Development

Statement of Potential Overlap: none

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: A Hierarchical Fault Tolerant Control System for Semi-Autonomous Operations of Small Modular Advanced Reactors

Proposal/Award Number (if available):

Source of Support: Department of Energy

Primary Place of Performance: North Carolina State University

Project/Proposal Support Start Date (if available): 10/2023

Project/Proposal Support End Date (if available): 09/2026

Total Award Amount (including Indirect Costs): \$1,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	0.45
2024	0.45
2025	0.45
2026	0.45

Overall Objectives: A Hierarchical Fault Tolerant Control System for Semi-Autonomous Operations of Small Modular Advanced Reactors

Statement of Potential Overlap: none

2. Project/Proposal Title: Distributed Zero Impact I&C Security for Digitized Reactor Operations

Proposal/Award Number (if available):

Source of Support: Department of Energy

Primary Place of Performance: University of Idaho

Project/Proposal Support Start Date (if available): 10/2023

Project/Proposal Support End Date (if available): 09/2026

Total Award Amount (including Indirect Costs): \$1,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	0.45
2024	0.45
2025	0.45
2026	0.45

Overall Objectives: Distributed Zero Impact I&C Security for Digitized Reactor Operations

Statement of Potential Overlap: none

3. Project/Proposal Title: Community-engaged Resilience for Energy-Water Systems (I-CREWS)

Proposal/Award Number (if available):

Source of Support: National Science Foundation

Primary Place of Performance: Idaho

Project/Proposal Support Start Date (if available): 09/2023

Project/Proposal Support End Date (if available): 08/2028

Total Award Amount (including Indirect Costs): \$20,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	1
2024	1
2025	1
2026	1
2027	1

Overall Objectives: Community-engaged Resilience for Energy-Water Systems (I-CREWS)

Statement of Potential Overlap: no

4. Project/Proposal Title: CPS: Medium: Cyber-informed Design, Education & Training for Energy Resiliency with Real-time Nuclear Reactor Operation

Proposal/Award Number (if available):

Source of Support: National Science Foundation

Primary Place of Performance: Idaho Falls Center for Higher Education

Project/Proposal Support Start Date (if available): 08/2023

Project/Proposal Support End Date (if available): 07/2026

Total Award Amount (including Indirect Costs): \$1,196,121

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	1.24
2024	1.24
2025	1.24

Year	Person-months per year committed
2026	1.24

Overall Objectives: Cyber-informed Design, Education & Training for Energy Resiliency with Real-time Nuclear Reactor Operation

Statement of Potential Overlap: none

5. Project/Proposal Title: A Sub-Seabed Repository for Spent Nuclear Fuel and High-Level Radioactive Waste

Proposal/Award Number (if available):

Source of Support: Idaho Global Entrepreneurial Mission

Primary Place of Performance: University of Idaho

Project/Proposal Support Start Date (if available): 05/2023

Project/Proposal Support End Date (if available): 04/2025

Total Award Amount (including Indirect Costs): \$566,346

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	1.5
2024	1.5
2025	1.5

Overall Objectives: A Sub-Seabed Repository for Spent Nuclear Fuel and High-Level Radioactive Waste

Statement of Potential Overlap: none

6. Project/Proposal Title: Common Ground: Legitimacy in Consent-based Siting for Interim Nuclear Waste Storage

Proposal/Award Number (if available):

Source of Support: DOE

Primary Place of Performance: Boise St Univ (Primary); Univ of Idaho; Multiple Univ

Project/Proposal Support Start Date (if available): 05/2023

Project/Proposal Support End Date (if available): 04/2025

Total Award Amount (including Indirect Costs): \$2,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	1.75
2024	1.75
2025	1.75

Overall Objectives: Common Ground: Legitimacy in Consent-based Siting for Interim Nuclear Waste Storage

Statement of Potential Overlap: none

7. Project/Proposal Title: Approach to Cyber-Risk Assessment of Nuclear Power Plants

Proposal/Award Number (if available):

Source of Support: Nuclear Regulatory Commission

Primary Place of Performance: Center for Advanced Energy Studies

Project/Proposal Support Start Date (if available): 10/2022

Project/Proposal Support End Date (if available): 09/2025

Total Award Amount (including Indirect Costs): \$500,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.45
2023	0.45
2024	0.45
2025	0.45

Overall Objectives: Approach to Cyber-Risk Assessment of Nuclear Power Plants

Statement of Potential Overlap: none