

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

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**PROJECT/PROPOSAL CURRENT SUPPORT**

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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: University of Idaho

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

2. Project/Proposal Title: Cyber-informed design, education, and training

Proposal/Award Number (if available):

Source of Support: University of Idaho

Primary Place of Performance: Center for the Advanced Energy Studies

Project/Proposal Support Start Date (if available): 03/2022

Project/Proposal Support End Date (if available): 09/2022

Total Award Amount (including Indirect Costs): \$34,122

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

<b>Year</b>	<b>Person-months per year committed</b>
2022	0.45

Overall Objectives: Cyber-informed design, education, and training

Statement of Potential Overlap: none

3. Project/Proposal Title: NuScale Simulator Benchmarking

Proposal/Award Number (if available):

Source of Support: Center for Advanced Energy Studies

Primary Place of Performance: Center for Advanced Energy Studies

Project/Proposal Support Start Date (if available): 03/2022

Project/Proposal Support End Date (if available): 09/2022

Total Award Amount (including Indirect Costs): \$50,000

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

<b>Year</b>	<b>Person-months per year committed</b>
2022	0.45

Overall Objectives: NuScale Simulator Benchmarking

Statement of Potential Overlap: none

4. Project/Proposal Title: Experimental determination of interactions between the radiation fields of Dragonfly's MMRTG and titan's environment

Proposal/Award Number (if available):

Source of Support: Idaho NASA EPSCoR Research Initiation Grant

Primary Place of Performance: Idaho NASA EPSCoR Research Initiation Grant

Project/Proposal Support Start Date (if available): 08/2021

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

Total Award Amount (including Indirect Costs): \$82,962

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

<b>Year</b>	<b>Person-months per year committed</b>
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<b>Year</b>	<b>Person-months per year committed</b>
2021	0.75
2022	0.75

Overall Objectives: Idaho NASA EPSCoR Research Initiation Grant

Statement of Potential Overlap: none

5. Project/Proposal Title: NuScale Simulator at the Center for Advanced Energy Studies

Proposal/Award Number (if available):

Source of Support: DOE Infrastructure

Primary Place of Performance: Center for Advanced Energy Studies

Project/Proposal Support Start Date (if available): 10/2019

Project/Proposal Support End Date (if available): 09/2022

Total Award Amount (including Indirect Costs): \$321,525

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

<b>Year</b>	<b>Person-months per year committed</b>
2019	0.45
2020	0.45
2021	0.45
2022	0.45

Overall Objectives: NuScale Simulator at the Center for Advanced Energy Studies

Statement of Potential Overlap: n/a

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## **PROJECT/PROPOSAL PENDING SUPPORT**

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1. 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:

<b>Year</b>	<b>Person-months per year committed</b>
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

2. 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:

<b>Year</b>	<b>Person-months per year committed</b>
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

3. Project/Proposal Title: Leveraging Risk Informed Performance Based Fundamental Safety Functions

Proposal/Award Number (if available):

Source of Support: Department of Energy

Primary Place of Performance: Idaho National Laboratory

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

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

Total Award Amount (including Indirect Costs): \$150,000

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

<b>Year</b>	<b>Person-months per year committed</b>
2022	0.25
2023	0.25

Overall Objectives: Leveraging Risk Informed Performance Based Fundamental Safety Functions

Statement of Potential Overlap: none

4. Project/Proposal Title: 2021 NRC Trade School and Community College Program

Proposal/Award Number (if available):

Source of Support: Nuclear Regulatory Commission

Primary Place of Performance: College of Eastern Idaho, Idaho Falls ID

Project/Proposal Support Start Date (if available): 05/2022

Project/Proposal Support End Date (if available): 04/2024

Total Award Amount (including Indirect Costs): \$162,224

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

<b>Year</b>	<b>Person-months per year committed</b>
2022	0.33
2023	0.33
2024	0.33

Overall Objectives: NRC Trade School and Community College Program

Statement of Potential Overlap: none

5. Project/Proposal Title: Digital Instrumentation and Controls Design to Prevent, Detect, and Mitigate Cyberthreats

Proposal/Award Number (if available):

Source of Support: Nuclear Regulatory Commission

Primary Place of Performance: University of Idaho - Idaho Falls Center

Project/Proposal Support Start Date (if available): 10/2021

Project/Proposal Support End Date (if available): 09/2024

Total Award Amount (including Indirect Costs): \$498,267

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

<b>Year</b>	<b>Person-months per year committed</b>
2021	0.45
2022	0.45
2023	0.45
2024	0.45

Overall Objectives: Digital Instrumentation and Controls Design to Prevent, Detect, and Mitigate Cyberthreats

Statement of Potential Overlap: none