



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2019-2020

LFIR#: 2282

1. **Title of Project:** Institute of Fire Detection at BRIDG

2. **Senate Sponsor:** David Simmons

3. **Date of Submission:** 02/27/2019

4. **Project/Program Description:**

Florida can leverage sensor and imager development infrastructure by enhancing the Institute of Fire Detection at BRIDG. The Institute provides a center of competence to identify fire prevention industry market need and connect need to previous and future research/IP available at universities throughout state. The Institute enhances research in sensor/imager devices via prototyping and low-volume production of new/improved products, working with the industry to develop a Fire Safety Tech Roadmap and transferring next-gen technologies for commercialization to high-volume facilities. To reach full potential, funds are needed to support operating expenses for base operations. Funds would be used for research at BRIDG and FL-based universities, procuring equipment for prototyping at BRIDG, and operational support of the Institute located at BRIDG. Funds will be leveraged by pursuing industry-funded activities for long-term Institute sustainability

5. **State Agency to receive requested funds :** Department of Economic Opportunity

State Agency Contacted? No

6. **Amount of the Nonrecurring Request for Fiscal Year 2019-2020**

Type of Funding	Amount
Operations	5,000,000
Fixed Capital Outlay	
Total State Funds Requested	5,000,000

7. **Total Project Cost for Fiscal Year 2019-2020 (including matching funds available for this project)**

Type of Funding	Amount	Percent
Total State Funds Requested (from question #6)	5,000,000	100.00%
Federal	0	0.00%
State (excluding the amount of this request)	0	0.00%
Local	0	0.00%
Other	0	0.00%
Total Project Costs for Fiscal Year 2019-2020		100.0%

8. **Has this project previously received state funding?** Yes

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	NonRecurring		
2018-19		1,000,000	2360A	No

9. **Is future-year funding likely to be requested?** Yes



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- a. If yes, indicate non-recurring amount per year. Yes, \$5 million per year for the next 3 years.

10. Details on how the requested state funds will be expended

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		
Other Salary and Benefits		
Expense/Equipment/Travel/Supplies/Other		
Consultants/Contracted Services/Study		
Operational Costs:		
Salary and Benefits		
Expense/Equipment/Travel/Supplies/Other	Funds will be used toward operations and acquisition of microelectronic fabrication equipment essential to supporting advanced sensors research and development. Includes supporting research programs identified pertinent by the Florida Fire Fighter Community and the purchase and installation of sophisticated tools and equipment used for sensor/imager manufacturing dev't to increase capabilities of the facility, enabling ICAMR, Inc., (dba BRIDG) to support research programs at the Institute.	5,000,000
Consultants/Contracted Services/Study		
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/Land/Planning Engineering		
Total State Funds Requested (must equal total from question #6)		5,000,000

11. Program Performance:

- a. What is the specific purpose or goal that will be achieved by the funds requested?

Establish Florida as a leader in smart fire detection by further supporting the Institute of Fire Detection at BRIDG to leverage existing advanced system and device integration development infrastructure. The Institute of Fire Detection at BRIDG would provide a center of competence to identify market need from the fire prevention industry and thoughtfully connect that need to previous and future basic research/intellectual property available from universities throughout Florida. New materials that improve sensitivity and selectivity of electro-chemical sensors and new approaches for optical sensors could revolutionize fire (and other home/building-related hazards like air quality) detection.

- b. What are the activities and services that will be provided to meet the intended purpose of these funds?

The Institute of Fire Detection at BRIDG would enhance basic research into manufacturable smart sensor/imager/detection devices with prototyping of new devices and support for low-volume production of new and improved products in the market. BRIDG would also work with the industry to develop a Fire Safety



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Technology Roadmap and transfer these next-generation technologies for commercialization purposes to higher volume production facilities. This also provides a unique opportunity for job creation in the fire detection industry by encouraging the establishment of high volume production facilities in Florida.

c. What are the direct services to be provided to citizens by the appropriations project?

Per the National Institute of Standards and Technology (NIST Advanced Fire Detection Project 2011), the combination of early warning fire detection and nuisance alarm resistance in residential smoke alarms could cut the fire-related death rate in half. Technology innovations needed for early warning fire detection to significantly reduce egress time require a systems approach with research in sensors and sensor modeling, data fusion, and implementation strategies. Sensors to monitor first responder health and location during emergency responses can prevent loss of life. The support of the Institute can help advance sensor technology integrated with fire detection devices to save lives and lower insurance costs via earlier detection. Research conducted at Florida universities contain fundamental knowledge necessary to build these advanced sensors, and having an institute focused on smart fire detection at BRIDG can fill gap to move research from lab to producible products.

d. Who is the target population served by this project? How many individuals are expected to be served?

BRIDG is the public-private partnership that provides Florida with the infrastructure to connect academic research and industry-led development to enable new advanced sensors with the opportunity to diversify jobs and become the center of excellence in smart sensor technology. This is part of a larger economic development initiative to create 4,000-5,000 direct and 12,000-20,000 indirect jobs within the next 10 years in Florida.

e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?

Successful collaboration between industry and academia to produce advanced smart sensors technology focused on fire detection. In addition, increase/improve economic activity through helping impact 4,000-5,000 direct and 12,000-20,000 indirect job creation over the next 10 years in Florida. Surveys with ICAMR, Inc. (dba BRIDG), partners, and companies that establish operations in Florida to collaborate with ICAMR, Inc. (dba BRIDG).

f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for in the contract?

Standard contract penalties.

12. The owner(s) of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owner(s) of the facility and the entity.

N/A

13. Requestor Contact Information:

- a. **Name:** Chester Kennedy
- b. **Organization:** ICAMR, Inc. (dba BRIDG)
- c. **E-mail Address:** ckennedy@gobridg.com
- d. **Phone Number:** (407)742-4261



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14. Recipient Contact Information:

- a. **Organization:** ICAMR, Inc. (dba BRIDG)
- b. **County:** Osceola
- c. **Organization Type:**
 - ☐ For Profit
 - ☐ Non Profit 501(c) (3)
 - ☐ Non Profit 501(c) (4)
 - ☐ Local Entity
 - ☐ University or College
 - ☒ Other (Please specify) 501 (c) (6)
- d. **Contact Name:** Fran Korosec
- e. **E-mail Address:** fkorosec@gobridg.com
- f. **Phone Number:** (407)221-4346

15. Lobbyist Contact Information

- a. **Name:** Steve Crisafulli
- b. **Firm Name:** Crisafulli Consulting, LLC
- c. **E-mail Address:** steve@stevecrisafulli.com
- d. **Phone Number:** (321)223-8862