



The Florida Senate

Local Funding Initiative Request - Fiscal Year 2018-2019

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

2. **Senate Sponsor:** David Simmons

3. **Date of Submission:** 01/22/2018

4. **Project/Program Description:**

There is a unique opportunity for Florida to leverage smart sensor and imager development infrastructure by establishing an Institute of Fire Detection at BRIDG. This Institute would provide a center to identify market need from the fire prevention industry and connecting that need to 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 sensor could revolutionize fire (and other home/building-related hazards like air quality) detection. The Institute at BRIDG would enhance basic research into manufacturable smart sensor/imager devices with prototyping new devices and support low volume production of new and improved products in the market for industry.

5. **State Agency Contacted?** No

a. If yes, which state agency?

b. If no, which is the most appropriate state agency to place an appropriation for the issue being requested?

Department of Economic Opportunity

6. **Amount of Non-recurring Requested for fiscal year 2018-19:**

Amount Requested for Operations	Amount Requested for Fixed Capital Outlay	Total Amount of Requested State Funds
1,000,000		1,000,000

7. **Type, amount and percent of matching funds available for this project for fiscal year 2018-19:**

Type	Amount	Percent
Federal	0	0.0%
State (excluding the amount of this request)	0	0.0%
Local	0	0.0%
Other	0	0.0%
TOTAL	0	0.0 %

8. **Total Project Cost for fiscal year 2018-19 (including the Total Amount of Requested State Funds):** 1,000,000

9. **Previous Year Funding Details:**



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- Has funding been provided in a previous state budget for this activity? No
- In the previous 5 fiscal years, how many years was funding provided? (Optional)
- What is the most recent fiscal year the project was funded?
- Were the funds provided in the most recent fiscal year subsequently vetoed?
- Complete the following Worksheet.

FY:	Input Prior FY Appropriation for this project for FY 2017-18 (If appropriated in FY 2017-18 enter the appropriated amount, even if vetoed.)		
	Column:	A	B
Funds Description:		Prior Year Recurring Funds *	Prior Year Nonrecurring Funds *
Input Amounts:			

10. Is future-year funding likely to be requested?

Yes

- If yes, indicate non-recurring amount per year.

\$1M over the next 3 years

11. Program Performance:

- 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 establishing the Institute of Fire Detection at BRIDG to leverage existing smart sensor and imager 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 connecting 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 sensor could revolutionize fire (and other home/building-related hazards like air quality) detection.

- 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 devices with prototyping new devices and support low volume production of new and improved products in the market for industry. BRIDG would also work with industry to develop a Fire Safety 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.



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c. How will the funds be expended?

Spending Category	Description	Amount
Administrative Costs		
<input type="checkbox"/> Executive Director/Project Head Salary and Benefits		
<input type="checkbox"/> Other Salary and Benefits		
<input type="checkbox"/> Expense/Equipment/Travel/Supplies/Other		
<input type="checkbox"/> Consultants/Contracted Services/Study		
Operational Costs		
<input type="checkbox"/> Salary and Benefits		
<input checked="" type="checkbox"/> Expense/Equipment/Travel/Supplies/Other	includes the purchase and installation of sophisticated tools and equipment used for sensor/imager manufacturing development to increase capabilities of the facility, enabling ICAMR, Inc. (dba BRIDG) to launch the Institute of Fire Detection at BRIDG.	1,000,000
<input type="checkbox"/> Consultants/Contracted Services/Study		
Fixed Capital Construction/Major Renovation		
<input type="checkbox"/> Construction/Renovation/Land/Planning Engineering		
TOTAL		1,000,000

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

According to 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 fire-related death rate in half. Technology innovations needed for early warning fire detection to significantly reduce egress time will require a systems approach with research in sensors and sensor modeling, data fusion, and implementation strategies. Establishing an Institute of Fire Detection at BRIDG can



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help advance sensor technology integrated with fire detection devices to help save lives and lower insurance cost through earlier detection.

e. 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.

f. 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 jobs creation over 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).

g. 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?

None suggested.

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.

Does not apply.

13. Requestor Contact Information:

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

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



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15. If there is a registered lobbyist, fill out the lobbyist information below.

- a. Name:** Dan Holsenbeck
- b. Firm:** University of Central Florida
- c. Email:** Daniel.Holsenbeck@ucf.edu
- d. Phone Number:** (407)823-2387