



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2024-2025

LFIR # 3163

1. Project Title

2. Senate Sponsor

3. Date of Request

4. Project/Program Description

This funding will begin to equip an R&D scale ultra-high-temperature materials & talent development facility in Florida. It will include fiber a chemical vapor infiltration furnace, addressing a critical deficiency in the U.S. supply chain for ceramics supporting national defense - hypersonic weapons, advanced armor, and power generation. There is a significant need to bolster this sector, including fostering the next wave of talent.

5. State Agency to receive requested funds

State Agency contacted?

6. Amount of the Nonrecurring Request for Fiscal Year 2024-2025

Type of Funding	Amount
Operations	2,500,000
Fixed Capital Outlay	0
Total State Funds Requested	2,500,000

7. Total Project Cost for Fiscal Year 2024-2025 (including matching funds available for this project)

Type of Funding	Amount	Percentage
Total State Funds Requested (from question #6)	2,500,000	17%
Matching Funds		
Federal	12,500,000	83%
State (excluding the amount of this request)	0	0%
Local	0	0%
Other	0	0%
Total Project Costs for Fiscal Year 2024-2025	15,000,000	100%

8. Has this project previously received state funding?

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	Nonrecurring		

9. Is future funding likely to be requested?

a. If yes, indicate nonrecurring amount per year.

b. Describe the source of funding that can be used in lieu of state funding.

As noted in the above table, ALMMII will be working with Florida Congressional delegation to secure federal funds to complete the project.

10. Has the entity requesting this project received any federal assistance related to the COVID-19 pandemic?



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If yes, indicate the amount of funds received and what the funds were used for.

ALMMII received a Paycheck Protection loan in the amount of \$511,190 in 2020. The loan was paid back in full.

Complete questions 11 and 12 for Fixed Capital Outlay Projects

11. Status of Construction

a. What is the current phase of the project?

- Planning
 Design
 Construction
 N/A

b. Is the project "shovel ready" (i.e permitted)?

c. What is the estimated start date of construction?

d. What is the estimated completion date of construction?

12. List the owners of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owners of the facility and the entity.

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

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		0
Other Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other		0
Consultants/Contracted Services/Study		0
Operational Costs: Other		
Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other	Chemical Vapor Infiltration furnace: \$2,500,000.	2,500,000
Consultants/Contracted Services/Study		0
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/Land/Planning Engineering		0
Total State Funds Requested (must equal total from question #6)		2,500,000

14. Program Performance

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

This funding will begin to equip an R&D scale ultra-high-temperature materials & talent development facility in Florida. It will include a chemical vapor infiltration (CVI) furnace, allowing for innovative developments in high-temperature and ultra-high-temperature ceramic matrix composite (CMC) materials, addressing a critical deficiency in the U.S. supply chain for ceramics supporting national defense - hypersonic weapons, advanced armor, and power generation. There is a significant need to bolster this sector, including fostering the next wave of talent.



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

This ceramics development facility will support new innovation in the Florida panhandle, which will compliment and extend the set of capabilities within the existing LIFT network, focusing on the development of ultra-high-temperature ceramics with unmatched toughness and durability. The facility will develop ceramics that are currently single-sourced and are of critical need to NASA, Missile Defense Agency (MDA), and the aerospace sector in general, alleviating the single-source risk.

c. What direct services will be provided to citizens by the appropriation project?

The funding and equipment will provide a new innovative research program for the broader Florida defense and manufacturing community and State research organizations in Florida while providing training opportunities in cutting edge advanced manufacturing technologies.

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

The broader Florida defense and manufacturing community and State research organizations along with high school and college/university students.

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

As the Manufacturing USA network of institutes grows across the country - there are 17 institutes at present - there are none with facilities in Florida. As the national advanced materials manufacturing innovation institute, LIFT will bring its capabilities in advanced materials, manufacturing processes, systems engineering and talent development - along with its 340 member ecosystem - to Florida, leading to increased economic activity, R&D and education in the state. This would be measured in funding delivered to the state, hiring Floridians to staff the facility and activity generated among Florida-based manufacturers.

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 the contract?

If appropriated, we would expect standard clawback provisions to be in the contract and exercised if we fail to perform as agreed upon.

15. Requester Contact Information

a. First Name **Last Name**

b. Organization

c. E-mail Address

d. Phone Number **Ext.**

16. Recipient Contact Information

a. Organization

b. Municipality and County

c. Organization Type

- For Profit Entity
- Non Profit 501(c)(3)
- Non Profit 501(c)(4)



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- Local Entity
- University or College
- Other (please specify)

d. First Name **Last Name**

e. E-mail Address

f. Phone Number

17. Lobbyist Contact Information

a. Name

b. Firm Name

c. E-mail Address

d. Phone Number