



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2020-2021

LFIR # 1478

1. **Project Title** Merritt Island High School StangStation

2. **Senate Sponsor** Tom Wright

3. **Date of Request** 10/30/2019

4. **Project/Program Description**

Building on the success of a cubesat (StangSat) launch aboard the SpaceX Falcon Heavy, Merritt Island High School is in the early planning stages of our next big thing – building and operating a commercial satellite ground tracking station – called StangStation. StangStation will begin with a fixed antenna to track selected small satellites in Low Earth Orbit and eventually we hope to incorporate a steerable antenna system to expand our capabilities. We hope one day to be able to “sell” uplink and downlink time to cubesat and other satellite operators, making it a profitable commercial enterprise. We are currently engaging industry partners for technical assistance, such as L3Harris, Lockheed Martin and Craig Technologies.

5. **State Agency to receive requested funds** Department of Education

State Agency contacted? ☐ Yes ☒ No

6. **Amount of the Nonrecurring Request for Fiscal Year 2020-2021**

Type of Funding	Amount
Operations	10,000
Fixed Capital Outlay	000
Total State Funds Requested	10,000

7. **Total Project Cost for Fiscal Year 2020-2021 (including matching funds available for this project)**

Type of Funding	Amount	Percentage
Total State Funds Requested (from question #6)	10,000	100.0 %
Matching Funds		
Federal	00	0 %
State (excluding the amount of this request)	00	0 %
Local	00	0 %
Other	00	0 %
Total Project Costs for Fiscal Year 2020-2021	10,000	100 %

8. **Has this project previously received state funding?** ☐ Yes ☒ No

If yes, provide the most recent instance:

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

9. **Is future-year funding likely to be requested?** ☒ Yes ☐ No

If yes, indicate nonrecurring amount per year. 5,000



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

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		<input style="width: 90%;" type="text"/>
Other Salary and Benefits		<input style="width: 90%;" type="text"/>
Expense/Equipment/Travel/Supplies/Other		<input style="width: 90%;" type="text"/>
Consultants/Contracted Services/Study		<input style="width: 90%;" type="text"/>
Operational Costs: Other		
Salary and Benefits		<input style="width: 90%;" type="text"/>
Expense/Equipment/Travel/Supplies/Other	Outdoor hardware: antennas, rotator, cables, mounting accessories. Indoor hardware: radio receiver and associated equipment.	10,000
Consultants/Contracted Services/Study		<input style="width: 90%;" type="text"/>
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/Land/Planning Engineering		<input style="width: 90%;" type="text"/>
Total State Funds Requested (must equal total from question #6)		10,000



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11. Program Performance

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

Students in the Merritt Island High School da Vinci Academy of Aerospace Technology will gain experience in research, design and implementation in the use of a commercial cubesat/satellite tracking station for low earth orbit.

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

Students will:

1. continue research into types of satellite tracking stations
2. meet regularly with industry partners
3. coordinate construction and placement of the station with Brevard Schools facilities personnel and with the MIHS Assistant Principal for facilities
4. once operational, monitor StangStation on a daily basis to learn tracking
5. market the tracking services to cubesat and other satellite customers

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

Tracking + uplink and downlink services for cubesat and other satellite operators

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

1. High School students: 50-75 over the next five years.
2. Industry partners: 5-10 aerospace companies
3. Cubesat and other satellite operators: TBD

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

1. High School students: who will gain invaluable experience in hardware and software development, marketing, governmental and industry interface, operational experience; 2. Industry partners: who will be able to interact with high school students preparing them for the workforce; 3. Cubesat and other satellite operators: who will be able to partner with students and receive needed data. The da Vinci Academy Director will document all student time-spent in hardware and software development, marketing, governmental and industry interface, operational experience. The Director will also track and monitor program expenses in coordination with the Brevard Schools Foundation and the MIHS bookkeeper. The Director will track and monitor all planning and operational communications with Cubesat and other satellite operators

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?

Reduction or elimination of funding in succeeding years.



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12. 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.

N/A

13. Requestor Contact Information

- a. First Name Last Name
- b. Organization
- c. E-mail Address
- d. Phone Number Ext.

14. 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)
 - ☐ Local Entity
 - ☐ University or College
 - ☒ Other (please specify)
- d. First Name Last Name
- e. E-mail Address
- f. Phone Number

15. Lobbyist Contact Information

- a. Name
- b. Firm Name
- c. E-mail Address
- d. Phone Number Ext.