



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2019-2020

LFIR#: 1868

1. **Title of Project:** NE Florida 21st Century Workforce Development

2. **Senate Sponsor:** Aaron Bean

3. **Date of Submission:** 02/06/2019

4. **Project/Program Description:**

The overarching goal of the Northeast Florida Innovative Pathways for 21st Century Workforce Development Project is to assure that all students in our region have the opportunity to participate in experiences and programs that will lead them to be both aware of and prepared for the opportunities that exist for them in the workforce of the 21st century, with a focus on those who are traditionally underrepresented in the STEM and Computer Science fields. This funding will allow us to scale and increase access to programs for students at all grade levels, in both formal and informal educational settings. Emerging technologies are now widely incorporated into the workforce and this trend will continue into the jobs of the future. It is imperative that all students have access and opportunity to explore these technologies in educational settings. This funding will allow us to scale, and expand successful pilots, and to develop innovative new programs.

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

State Agency Contacted? Yes

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

Type of Funding	Amount
Operations	975,000
Fixed Capital Outlay	
Total State Funds Requested	975,000

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)	975,000	76.47%
Federal	0	0.00%
State (excluding the amount of this request)	0	0.00%
Local	0	0.00%
Other	300,000	23.53%
Total Project Costs for Fiscal Year 2019-2020	1,275,000	100.0%

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

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	NonRecurring		
2018-19		975,000	111	No

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



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a. If yes, indicate non-recurring amount per year. 975,000

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	Curriculum & Materials: Robotics equipment and curriculum, problem-based learning curriculum, mixed and augmented reality equipment and curriculum, drones equipment and curriculum, coding equipment, including Arduino boards and similar devices, curriculum and materials for AI and machine learning, data, and similar applications, hacking STEM, CompTIA, IoT, cybersecurity, 3D printing materials and curriculum. Materials and supplies for Intel Math Professional Development. Various training mat	700,000
Consultants/Contracted Services/Study	Professional development for implementation of curricula detailed above, contracted services for scaling of key robotics and coding initiatives.	275,000
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/Land/Planning Engineering		
Total State Funds Requested (must equal total from question #6)		975,000

11. Program Performance:

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

Technology and automation are rapidly changing the workforce landscape for the jobs of the future. This rapid acceleration require all students have the opportunity to gain needed skills, as well as develop interests in these growing fields. The overarching goal of the project is to assure that all students in our region have expanded opportunities to participate in experiences and programs that will lead them to be both aware of and prepared for the opportunities that exist for the workforce of the 21st century, with a focus on those who are traditionally underrepresented in the STEM and Computer Science Fields.

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

All of the activities within the projects are designed to increase student engagement in STEM while exploring STEM careers and building skills and content knowledge that will prepare them to be college/career ready for



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the jobs of the 21st century. All of the work of this project is directly aligned with improving instructional quality through either development of increased content knowledge in the key areas of mathematics, computer science, and science/STEM, and /or those supporting students through these programs. Activities include computer science classes, clubs, and competitions, mathematics competitions and developing classrooms with stronger teachers, summer STEM camps that present high quality content through engaging activities, and programs that increase exposure to cutting edge technologies, such as drones. 3D printing, augmented and virtual reality, and the applications of cybersecurity, artificial intelligence and machine learning, as well as big data.

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

Teachers and community partners who are working with students will receive training, professional development and materials to enhance their ability to engage students in mathematics, computer science and coding, robotics, drone technologies, and other emerging technologies. Students in our schools will receive experiences that will better prepare them for a success in the 21st century workforce, putting them on a college or career pathway that will lead to their economic success. Students will have broadened access to after school and summer programs that are STEM rich, and shall have access to more engaging experiences during the school day which incorporate the fundamental underpinnings of STEM and Computer Science.

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

The targeted population for this work is all students in our region attending both traditional public schools and public charter schools. Serving those children are teachers and administrators, community partners and those working in informal learning organizations, such as the Boys and Girls Club and the Police Athletic League. Those serving students will also be targeted by this project to build capacity to better guide our youth. Based upon the Department of Education FTE Forecast, this project will serve approximate 251,066 K12 students in the northeast Florida region, which is served by the Northeast Florida Regional STEM2 Hub. In cases where best practices are shared and scaled to other districts in the region, the projected number served will be increased.

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

There are several areas of benefit from this project. Student outcomes will be measured by quantifying experiences that are available to students and the number of students served in the school day, in after school programs, and in summer programs. In addition, some student outcomes will be captured through state and local assessment data. In addition, measures of increased disposition towards a STEM Career will be measured through use of the Harvard PEAR instrument. Adult learning shall be measure through the use of pre/post assessments, where feasible, and through measures based on feedback from professional development experiences.

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?

Should we fail to meet our deliverables or performance measures, we should be given notice and the opportunity to come into compliance. Should we fail to address the concerns, funding should be withheld until a time that the project is in compliance with the requirements.



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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:** Gary Chartrand
- b. **Organization:** Northeast Florida Regional STEM2 Hub, Inc.
- c. **E-mail Address:** Kathleen@stem2hub.org
- d. **Phone Number:** (904)502-0958

14. Recipient Contact Information:

- a. **Organization:** Northeast Florida Regional STEM2 Hub
- b. **County:** Clay, Duval, Saint Johns
- c. **Organization Type:**
 - For Profit
 - Non Profit 501(c) (3)
 - Non Profit 501(c) (4)
 - Local Entity
 - University or College
 - Other (Please specify)
- d. **Contact Name:** Kathleen Schofield
- e. **E-mail Address:** Kathleen@stem2hub.org
- f. **Phone Number:** (904)502-0958

15. Lobbyist Contact Information

- a. **Name:** None
- b. **Firm Name:** None
- c. **E-mail Address:**
- d. **Phone Number:**