

LFIR # 2042

Travis Hutson of Request 11/15/2019 ect/Program Description Norkforce Pipeline Project will establish a matching grant seed program for school districts in eligible industry cluster regions to ment Project Lead The Way (PLTW) in grades 6-12 with the goal of expanding access to industry ready credentials and workfor. PLTW is a national STEM organization partnering with industry leaders to create project-based-learning, scenario-based culum, and relevant teacher professional development in Engineering, Biomedical Sciences, and Computer science. PLTW with up to \$1 Million to implement Prek-5-PLTW programs in the identified industry cluster regions. Each grant will cover the one-tip of the project of implementation of PLTW. This program will introduce one new course each year, totaling three courses over three years. The am will require minimal continuation funding. This cluster student cohort will earn industry credentials aligned with workforce sking. e Agency to receive requested funds Department of Education a Agency contacted? Yes No Pount of the Nonrecurring Request for Fiscal Year 2020-2021 per of Funding Amount erations 1,000,000 1 Project Cost for Fiscal Year 2020-2021 (including matching funds available for this project) Deformance of Funding Amount Percentage al State Funds Requested (from question #6) 1000000 50.0 %	Project/Program D The Workforce Pipeline implement Project Lead talent. PLTW is a nation curriculum, and relevant match up to \$1 Million to costs for implementation program will require min gap. State Agency to re	ravis Hutson 1/15/2019 escription Project will establish a matching grant of the Way (PLTW) in grades 6-12 with the particular of the W	seed program for school di he goal of expanding acce ndustry leaders to create participation. So the identified industry clus one new course each year student cohort will earn industry artment of Education	ss to industry ready cre roject-based-learning, s iences, and Computer ter regions. Each grant , totaling three courses	edentials and workforcenario-based science. PLTW with will cover the one-tover three years. T
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If yes, indicate nonrecurring amount per year.



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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		
Other Salary and Benefits		
Expense/Equipment/		
Travel/Supplies/Other		
Consultants/Contracted		
Services/Study		
Operational Costs: Oth	er	
Salary and Benefits		
Expense/Equipment/	Costs to serve up to 80,000 students with the following: PLTW PreK-12 curriculum in Engineering,	
Travel/Supplies/Other	Computer Science, and Biomedical sciences, onsite teacher professional development, PLTW course	1,000,000
	supplies, and potential PLTW educator PD travel.	
Consultants/Contracted Services/Study		
Services/Study		
Fixed Capital Construc	tion/Major Renovation:	
Construction/Renovation/ Land/Planning		
Engineering		
Total State Funds Re	quested (must equal total from question #6)	1,000,000



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11. Program Performance

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

With an estimated 2.4 million STEM jobs unfilled, Florida needs to better prepare students to succeed in an ever-evolving world. Research has shown that students with access to PLTW are three times more likely to major in STEM and the organization is credited by many for aiding in the development of in-demand twenty-first century skills and employment opportunities with top STEM companies. The dollar for dollar (up to \$1 million) match from PLTW for PreK-5 will expose students to high quality and engaging STEM curriculum during early learning which can encourage students to continue in these studies and reduce the equity gap often seen in STEM, while the state's funding will be used for grades 6-12 will help current middle and high school students obtain industry certifications and/or high level skills in STEM fields. The Workforce Pipeline Project will inspire, educate, and prepare the next generation of our workforce while helping to secure a healthy economic future for Florida.

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

Delivery of up to 80,000 students within the industry clusters with the following:

- PLTW curricula in Engineering, Biomedical Sciences, and Computer sciences programs in PreK- grade 5 (PLTW Launch), grades 6 -8 (PLTW Gateway), and grades 9-12 (Biomedical Science, Computer Science and Engineering)
- •PLTW subject specific professional development to ensure teacher efficacy
- •Course supplies: Robotics kits, diagnostic kits, integrated circuits, etc...
- c. What direct services will be provided to citizens by the appropriation project?

Industry recognized project-based-learning, scenario based curriculum, and relevant teacher professional development in Engineering, Biomedical Sciences, and Computer science. Graduates of these program are routinely hired by industry partners. In addition students can earn industry certification, apprenticeships, and preferential access to over 200 universities.

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

Industry cluster regions in aviation & aerospace, information technology, life sciences, logistics & distribution, military, and manufacturing, were identified and then correlated with district offerings and/or interest to identify the following public school districts as eligible for grant funds due to the likelihood of available jobs in the district: Alachua, Brevard, Broward, Dade, Duval, Escambia, Flagler, Hillsborough, Indian River, Lake, Marion, Okaloosa, Orange, Osceola, Palm Beach, Pasco, Pinellas, Polk, Santa Rosa, Seminole, St. John's, Volusia.

Depending on implementation and school size, this project could serve approximately 50,000-65,000 over a three year time frame.

- e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?
 - PLTW graduates are recruited to enter workforce fields, eligible for college credit, and able to earn industry certifications.
 - Research supports early exposure to STEM curricula such as PLTW programs have a direct correlation with student engagement in STEM related careers.
 - Industry endorsed STEM education with a track record of success in preparing students for college and/or career in in-demand fields.
 - Rigorous professional development cocreated by industry partners
 - Program efficacy can be measured by industry certifications, college credentials, student enrollment, and employment data.
- 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?

PLTW is directly contracted to offer industry STEM curricula within states such as Massachusetts and many others. PLTW serves as a 100% pass through organization for philanthropic donations. As such, PLTW is capable and experienced in delivering state contracts and would support the utilization of standard FL provisions.



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