

Budget

Pickaway-Ross County JVSD (051433) - Ross County - 2017 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (113)

U.S.A.S. Fund #: 466

[Plus/Minus Sheet \(opens new window\)](#)

Purpose Code	Object Code	Salaries 100	Retirement Fringe Benefits 200	Purchased Services 400	Supplies 500	Capital Outlay 600	Other 800	Total
Instruction		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Support Services		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Governance/Admin		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prof Development		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Family/Community		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Safety		0.00	0.00	0.00	0.00	150,000.00	0.00	150,000.00
Facilities		0.00	0.00	0.00	0.00	200,000.00	0.00	200,000.00
Transportation		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indirect Cost							0.00	0.00
Total		0.00	0.00	0.00	0.00	350,000.00	0.00	350,000.00
							Adjusted Allocation	0.00
							Remaining	-350,000.00

Application

Pickaway-Ross County JVSD (051433) - Ross County - 2017 - Straight A Fund - Rev 0 - Straight A Fund - Application Number (113)

Please respond to the prompts or questions in the areas listed below in a narrative form.

A) APPLICANT INFORMATION - General Information

1. Project Title:
RAMTEC-Building/Facilities Upgrade, Energy Savings & Improvements

2. Project Tweet: Please limit your responses to 140 characters.
PRCTC and industry partners will expand manufacturing, engineering & robotics pathways through CTE experiences for 7th--12th graders.
This is an ultra-concise introduction to the project.

3. Estimate of total students at each grade level to be directly impacted each year.

*This is the number of students that will receive services or other benefits as a **direct result** of implementing this project. This does not include students that may be impacted if the project is replicated or scaled up in the future. It excludes students who have merely a tangential or indirect benefit (such as students having use of improved facilities, equipment etc. for other uses than those intended as a part of the project). The Grant Year is the year in which funds are received from the Ohio Department of Education. Years 1 through 5 are the sustainability years during which the project must be fiscally and programmatically sustained.*

Grant Year					
Education	Pre-K Special	K	1	2	3
4	5	6	100 7	100 8	
100 9	100 10	300 11	300 12		

Year 1					
Education	Pre-K Special	K	1	2	3
4	5	6	100 7	100 8	
100 9	100 10	300 11	300 12		

Year 2					
Education	Pre-K Special	K	1	2	3
4	5	6	100 7	100 8	
100 9	100 10	300 11	300 12		

Year 3					
Education	Pre-K Special	K	1	2	3
4	5	6	200 7	200 8	
200 9	200 10	300 11	300 12		

Year 4					
Education	Pre-K Special	K	1	2	3
4	5	6	200 7	200 8	
200 9	200 10	300 11	300 12		

Year 5					
Education	Pre-K Special	K	1	2	3
4	5	6	200 7	200 8	

4. Explanation of any additional students to be impacted throughout the life of the project.

This includes any students impacted indirectly and estimates of students who might be impacted through replication or an increase in the scope of the original project.

This program will indirectly impact 1200 middle school students. Next school our career technical planning district will begin implementing of (5) pre-engineering programs starting with 7th graders and moving through the 10th grade. These students will have an opportunity to utilize the RAMTEC program and facilities over their high school career and beyond. In addition, PRCTC is working with the Ohio Department of Youth Services to provide career technical education opportunities to their students housed in Circleville, Ohio. A select number of DYS students will have an opportunity to utilize PRCTC's CTE programs and facilities as well. These numbers will fluctuate year to year based around multiple security clearance variables.

5. Lead applicant primary contact: - Provide the following information:

First and last name of contact for lead applicant

Jamie L. Nash

Organizational name of lead applicant

Pickaway Ross Career & Technology Center

Address of lead applicant

895 Crouse Chapel Road Chillicothe, Ohio 45601

Phone Number of lead applicant

740-642-1223

Email Address of lead applicant

jamie.nash@pickawayross.com

Community School Applicants: After your application has been submitted and is in Authorized Representative Approved status an email will be sent to your sponsoring entity automatically informing the sponsor of your application.

6. Are you submitting your application as a consortium? - Select one checkbox below

Yes

No

If you are applying as consortium, please list all consortium members by name on the "Consortium Member" page by clicking on the link below. If an educational service center is applying as the lead applicant for a consortium, the first consortium member entered must be a client district of the educational service center.

[Add Consortium Members](#)

7. Are you partnering with anyone to plan, implement, or evaluate your project? - Select one checkbox below

Yes

No

If you are partnering with anyone, please list all partners (vendors, service providers, sponsors, management companies, schools, districts, ESCs, IHEs) by name on the "Partnering Member" page by clicking on the link below.

[Add Partnering Members](#)

B) PROJECT DESCRIPTION - Overall description of project and alignment with goals

8. Describe the innovative project: - Provide the following information

The response should provide a clear and concise description of the project and its major components. The following questions will address specific outcomes and measures of success.

a. The current state or problem to be solved; and

PRCTC recently purchased (2) new buildings (22,000 square feet) with local funds (2 million) to expand career technical education. The buildings are located in Chillicothe Ohio and are accessible to internal and external stakeholders. The new location will house our RAMTEC program for secondary education, along with other new career technical education programs. The list includes; Health Administration and multiple Senior Only Credential Programs (10+). These credentials aligned to Ohio in-demand jobs as well as the new Ohio Graduation requirements. The current building will require facility upgrades, so RAMTEC, Health Administration and Senior Credential programs can be fully implemented by next school year. PRCTC received a Straight A Grant for RAMTEC, but no facilities upgrade was included in the grant. PRCTC is requesting a facilities upgrade at our new buildings, so Career-Technical Education can expand, provide additional opportunities for students and meet the needs of industry.

b. The proposed innovation and how it relates to solving the problem or improving on the current state.

RAMTEC: National Association of Manufacturers states 88% of manufacturers have difficulties finding qualified candidates. Ohio Association of Community Colleges believes industry recognized credentials are a part of the solution. RAMTEC, funded in Straight A Round 2, received statewide attention for fostering statewide engagement & supporting a holistic approach to economic/ workforce development by allowing students to demonstrate mastery of skills on equipment identical to that used in Ohio manufacturing industries. RAMTEC collaborates with Ohio Department of Higher Education, Ohio Department of Education, Career & Technical Education, Adult Education, Ohio Office of Workforce Transformation, Ohio ACTE, Ohio Manufacturer's Association, JobsOhio, and many others. PRCTC will lead districts to expand 7th-8th grade career exploration & develop 9-10th grade PLTW "Project Lead the Way" manufacturing programs using e-learning & "hands-on" activities aligned to Ohio's Learning Standards. Teachers in grades 7-10 will learn to use online digital electronics & Vex Robotics hands on projects/curriculum to expose students to Advanced Manufacturing further driving students to enroll in RAMTEC certification programs. PRCTC will coordinate equipment purchases and facilitate instructor training to re-design 11-12th grade experiences into a competency based curriculum model tied to advanced manufacturing certifications that includes STEM based activities & connecting them to students participating in all Ohio RAMTEC programs. Our districts will replicate best practices to ensure efficiency, effectiveness & strong student outcomes. At the same time, local industry needs drive curriculum development, equipment selection and instructional personnel-keeping everything current with local workforce needs. Current research shows students who graduate HS having already obtained college credit have 30% greater chance of graduating from college compared to peers who have not earned college credit before graduation. PRCTC supports districts to transition to "College Now" practices so students in RAMTEC programs can earn stackable credentials under National Association of Manufacturers (NAM) - endorsed Manufacturing Competency Based Skills Certification System. Students can earn up to 30 hours of college credit (no cost to families) at partner post-secondary institutions leading to an Associate's Degree in a manufacturing pathway. Instructional/organizational changes include: expansion of competency-based and blended instruction where teachers more effectively use e-learning materials, real life simulators and authentic activities including hands-on learning to build & operate robots, design & build parts and share these ideas across Ohio RAMTEC centers. CTC instructors will be cross trained so RAMTEC can be integrated into Welding, Engineering & Advanced Manufacturing, Precision Machining, and Computer Networking. JVSD's will enhance existing programs by utilizing RAMTEC equipment to cross train students so they can earn new stackable certifications and post-secondary college credits. CTE advisory programs will include new partners to meet state/ local requirements and correlate local job markets. PRCTC is requesting a total of \$350,000.00 to renovate the current buildings and provide our students and community an opportunity to learn from a state of the art facility.

9. Select which (up to four) of the goals your project will address. For each of the selected goals please provide the requested information to demonstrate your innovative process. - (Check all that apply)

a. Student achievement

i. List the desired outcomes.

Examples: fewer students retained at 3rd grade, increase in graduation rate, increased proficiency rate in a content area, etc.

ii. What assumptions must be true for this outcome to be realized?

Examples: early diagnosis and intervention are needed to support all children learning to read on grade level; project-based learning results in higher levels of student engagement and learning, etc.

iii. Describe any early efforts you have made to test these assumptions (pilot implementation, etc), or how these are well-supported by the literature.

iv. List the specific indicators that you will use to measure progress toward your desired outcome.

These should be measurable changes, not merely the accomplishment of tasks. Example: Teachers will each implement one new project using new collaborative instructional skills, (indicates a change in the classroom) NOT; teachers will be trained in collaborative instruction (which may or may not result in change).

v. List and describe pertinent data points that you will use to measure student achievement, providing baseline data to be used for future comparison.

vi. How are you prepared to alter the course of your project if assumptions prove false or outcomes are not realized?

b. Spending reductions in the 5 year forecast

i. List the desired outcomes.

Examples: lowered facility cost as a result of transition to more efficient systems of heating and lighting, etc.; or cost savings due to transition from textbook to digital resources for teaching.

The current building will require facility upgrades, so RAMTEC, Health Administration and Senior Credential programs can be fully implemented by next school year. The following is an overall budget for facility upgrades and improvements: Capital Outlay (Safety Upgrades): installation of a fire suppression system \$100,000.00 and an installation of a security system, including cameras \$50,000.00. Capital Outlay (Facilities Upgrades): HVAC system upgrades, energy sufficient complex, electrical upgrades, additional parking, additional storage. PRCTC will utilize a contractor to assessed our new buildings and make the necessary improvements to make the facilities energy efficient. The RAMTEC lab will be located in it's own building and the classroom will be located in the main building. Utilities cost savings of 50%.

ii. What assumptions must be true for this outcome to be realized?

Example: transition to "green energy" solutions produce financial efficiencies, etc.; or available digital resources are equivalent to or better than previously purchased textbooks.

The design of the facility must be tailored around green energy technology. The HVAC, electrical and building renovations must all be designed around green energy technology. PRCTC researched other CTPDs within Ohio and has already contacted a services provider who has a proven record to save school districts 25%-50% on energy cost. This process will allow PRCTC to modify the RAMTEC building and make a state-of-the-art facility that replicates industry and the same time saves taxpayers money.

iii. Describe any early efforts you have made to test these assumptions (pilot implementation, etc), or how these are well-supported by the literature.

PRCTC researched other CTPDs within Ohio and has already contacted a services provider who has a proven record to save school districts 25%-50% on energy cost. PRCTC will have all buildings assessed over the summer to make long-term plans for energy upgrades. The following processes will be utilized to determine the best solutions to upgrade our RAMTEC building. Energy Audit - Putting together the game plan A successful game plan starts with a scouting report. For any energy project, this is the energy audit. An audit consists of an in-depth discussion with facility and maintenance personnel in order to gain a good understanding of building operational characteristics and trouble areas. The audit will also include a detailed utility analysis, facility walk-through and any engineering calculations. The result of this first step will be a list of recommended energy conservation measures and the associated cost savings. Design and Engineering Focused on maximizing energy efficiency Since Dynamix team members are specialized engineers with extensive experience in turning the analysis from the energy audit into real world solutions, all suggested approaches are made from an engineering perspective. This ensures that recommendations are made from an unbiased position with the goal of selecting the best equipment to ensure maximum efficiency and energy savings. Turn-key installation/Single Prime Seamless execution Dynamix fully executes all projects and operates as a single point of responsibility for each of our clients. That includes self-performing all project management as well as designing and programming building automation controls. The company's extensive experience in managing complex construction projects allows us to anticipate potential pitfalls and ensure that the installation is completed to the design intent. HVAC System Fine-Tuning The installation is not the end To achieve substantial and lasting savings, it is important to perform at the highest levels of quality. Dynamix uses a lean, iterative execution process coupled with quality testing to ensure that our projects perform to match the highest standards. The Dynamix Technical Services team continuously monitors and reports the performance of building automation systems, as well as fine-tunes HVAC systems to optimize efficiency for more than a full year as part of our projects. Groveport Madison School District - HB-264 Energy Project Dynamix Energy Services conducted a comprehensive energy audit of the district. Energy models were created for all buildings using data gathered during the audit. These energy models were then calibrated with actual utility data and used to predict the energy savings for all energy conservation measures (ECMs) identified during the audit. In addition, the most recent five years of maintenance data were analyzed to produce a maintenance savings calculation. Cost estimates were performed and considered in conjunction with the savings to determine which ECMs had the best pay back. Dynamix then began the implementation phase of the project, which was completed in less than nine months without interruption to any classes or school functions. One year after implementing the Dynamix project, the Groveport Madison Schools have saved well over \$1 million in utilities costs.

2100 iv. Please enter the Net Cost Savings from your FIT.

v. List and describe the budget line items where spending reductions will occur.

The following is an overall budget for facility upgrades and improvements: Capital Outlay (Safety Upgrades): installation of a fire suppression system \$100,000.00 and an installation of a security system, including cameras \$50,000.00. Capital Outlay (Facilities Upgrades): HVAC system upgrades, energy sufficient complex, electrical upgrades, additional parking, additional storage. PRCTC will utilize a contractor to assess our new buildings and make the necessary improvements to make the facilities energy efficient. Utilities cost savings of 25%-50%.

vi. How are you prepared to alter the course of your project if assumptions prove false or outcomes are not realized?

In the CTE arena, we are always prepared to alter courses of projects. PRCTC has made a (2) million dollar investment to expand CTE and received a Straight A grant for \$500,000.00, in addition to adding \$88,000.00 to the RAMTEC program as well as hiring a full time instructor to deliver the program. It is our belief and RAMTEC evidence, this new campus and program will be successful and our district is in the position to make any changes necessary to support our assumptions. If the facility upgrades don't assist in a cost savings or program design layout that replicates the industry, we will make the modification necessary for it to be implemented as planned.

c. Utilization of a greater share of resources in the classroom

i. List the desired outcomes.

Example: change the ratio of leadership time spent in response to discipline issues to the time available for curricular leadership.

ii. What assumptions must be true for this outcome to be realized?

Examples: improvements to school and classroom climate will result in fewer disciplinary instances allowing leadership to devote more time to curricular oversight.

iii. Describe any early efforts you have made to test these assumptions (pilot implementation, etc), or how these are well-supported by the literature.

iv. Please provide the most recent instructional spending percentage (from the annual Ohio School Report Card) and discuss any impact you anticipate as a result of this project.

Note: this is the preferred indicator for this goal.

v. List any additional indicators that you will use to monitor progress toward your desired outcome. Provide baseline data if available. *These should be specific outcomes, not just the accomplishment of tasks. Example: fewer instances of playground fighting.*

vi. How are you prepared to alter the course of your project if assumptions prove false or outcomes are not realized?

d. Implementing a shared services delivery model

i. List the desired outcomes.

Examples: increase in quality and quantity of employment applications to districts; greater efficiency in delivery of transportation services, etc.

ii. What assumptions must be true for this outcome to be realized?

Example: neighboring districts have overlapping needs in administrative areas that can be combined to create efficiencies.

iii. Describe any early efforts you have made to test these assumptions (pilot implementation, data analysis etc), or how these are well-supported by the literature.

iv. List the specific indicators that you will use to monitor progress toward your desired outcomes.

These should be measurable changes, not the accomplishment of tasks.

Example: consolidation of transportation services between two districts.

v. List and describe pertinent data points that you will use to evaluate the success of your efforts, providing baseline data to be used for future comparison.

Example: change in the number of school buses or miles travelled.

vi. How are you prepared to alter the course of your project if assumptions prove false or outcomes are not realized?

10. Which of the following best describes the proposed project? - (Select one)

a. New - Never before implemented

b. Existing - Never implemented in your community school or school district but proven successful in other educational environments

c. Replication - Expansion or new implementation of a previous Straight A Project

d. Mixed Concept - Incorporates new and existing elements

e. Established - Elevating or expanding an effective program that is already implemented in your district, school or consortia partnership

C) BUDGET AND SUSTAINABILITY

11. Financial Information: - All applicants must enter or upload the following supporting information. The information in these documents must correspond to your responses in questions 12-19.

a. Enter a project budget in CCIP (by clicking the link below)

[Enter Budget](#)

b. If applicable, upload the Consortium Budget Worksheet (by clicking the Upload Documents link below)

c. Upload the Financial Impact Table (by clicking the Upload Documents link below)

[Upload Documents](#)

The project budget is entered directly in CCIP. For consortia, this project budget must reflect the information provided by the applicant in the Consortium Budget Worksheet. Directions for the Financial Impact Table are located on the first tab of the workbook. Applicants must submit one Financial Impact Table with each application. For consortium applications, please add additional sheets instead of submitting separate Financial Impact Tables.

350,000.00 12. What is the amount of this grant request?

13. Provide a brief narrative explanation of the overall budget.

Responses should provide a rationale and evidence for each of the budget items and associated costs outlined in the project budget. In no case should

the total projected expenses in the budget narrative exceed the total project costs in the budget grid.

PRCTC recently purchased (2) new buildings (22,000 square feet) with local funds (2 million) to expand career technical education. The buildings are located in Chillicothe Ohio and is accessible to internal and external stakeholders. The new location will house our RAMTEC program for secondary education, along with other new career technical education programs. The list includes; Health Administration and multiple Senior Only Credential Programs (10+). The current building will require facility upgrades, so RAMTEC, Health Administration and Senior Credential programs can be fully implemented by next school year. The following is an overall budget for facility upgrades and improvements: Capital Outlay (Safety Upgrades): installation of a fire suppression system \$100,000.00 and an installation of a security system, including cameras \$50,000.00. Capital Outlay (Facilities Upgrades): HVAC system upgrades, energy sufficient complex, electrical upgrades, additional parking, additional storage, remodel of current structure for RAMTEC program \$200,000.00 PRCTC is requesting a total of \$350,000.00 to renovate the current buildings. PRCTC will utilize a contractor to assessed our new buildings and make the necessary improvements to make the facilities energy efficient. The RAMTEC lab will be located in it's own building and the classroom will be located in the main building.

14. Please provide an estimate of the total costs associated with maintaining this program through each of the five years following the initial grant implementation year (sustainability costs). This is the sum of expenditures from Section A of the Financial Impact Table.

4,200.00 a. Sustainability Year 1

2,100.00 b. Sustainability Year 2

2,100.00 c. Sustainability Year 3

2,100.00 d. Sustainability Year 4

2,100.00 e. Sustainability Year 5

15. Please provide a narrative explanation of sustainability costs.

Sustainability costs include any ongoing spending related to the grant project after June 30, 2017. Examples of sustainability costs include annual professional development, staffing costs, equipment maintenance, and software license agreements. To every extent possible, rationale for the specific amounts given should be outlined. The costs outlined in this narrative section should be consistent and verified by the financial documentation submitted and explained in the Financial Impact Table. If the project does not have sustainability costs, applicants should explain why.

RAMTEC-Building / Facilities Upgrade & Improvements The sustainability cost will be general expenses to maintain the lab and classroom spaces such as electric, gas, water and insurance expenses. These are estimates based off services currently provided to other programs.

Total Operation Costs:\$4200.00 These additional cost will be absorbed into the districts overall operations cost per year. After renovations and facilities upgrades, the operational cost is projected to decrease substantially.

0 16. What percentage of these costs will be met through cost savings achieved through implementation of the program?

Total cost savings from section B of the Financial Impact Table divided by total sustainability cost from section A of the Financial Impact Table. If the calculated amount is greater than 100, enter 100 here.

17. Please explain how these cost savings will be derived from the program.

Applicants who selected spending reductions in the five-year forecast as a goal must identify those expected savings in questions 16 and 17. All spending reductions must be verifiable, permanent, and credible. Explanation of savings must be specific as to staff counts; salary/benefits; equipment costs, etc.

This project is a building/facilities upgrade and improvements. The original RAMTEC grant awarded to PRCTC outlines how these cost savings will be derived from the program. The following is an outline from the original RAMTEC grantee. This project is revenue neutral from a direct cost position only as there will not be ongoing costs during the five years of the grant beyond the stated amounts. But in order to see a complete breakdown of the cost saving being giving directly from the manufactures and vendors I have listed those below. The cost saving will be derived from the program with professional development cost and industrial advanced manufacturing & software saving as follows for each of the industry equipment partners (Listed are the exact costs to industry and all fees have been waved for partnering in this grant) FANUC Robotics- (\$3,500.00)? FANUC CNC Machining- (\$1,660.00)?FANUC Vision- (\$5,000.00)? Rockwell International/Allen Bradley- (\$1,500.00)? Parker Hannifin- (\$1,200.00)? Total Certification and Training Savings- ##### (\$14,160.00) #####?Equipment & Software Savings:FANUC Robotics Roboguide Equipment & Software - (\$249,875.00)? Motoman Robotics MotoSim Equipment & Software - (\$200,000.00)? Rockwell International/Allen Bradley Equipment & Software - (\$175,000.00)? FANUC CNC Machining Equipment & Software - (\$96,000.00)? Total Equipment & Software Savings- ##### (\$720,875.00) #####.

100 18. What percentage of sustainability costs will be met through reallocation of savings from elsewhere in the general budget?

Total reallocation from section C of the Financial Impact Table divided by total sustainability cost from section A of the Financial Impact Table

Note: the responses to questions 16 and 18 must total 100%

19. Please explain the source of these reallocated funds.

Reallocation of funds implies that a reduction has been made elsewhere in the budget. Straight A encourages projects to determine up front what can be replaced in order to ensure the life of the innovative project.

PRCTC will reallocate funds to cover the sustainable costs that are estimated to be \$4200 per district each year (which we believe to be overestimated) for increases in utilities. Though difficult to predict, these costs would cover the operation of the robots on a daily basis for a much longer time period than what the activities of the grant will require. All of the equipment will be using standard 110v electrical outlets which should not require additional electrical changes or a higher pull of electricity to operate the equipment. The districts will not know for sure until after the grant implementation year and the first year of operation the extent of the actual increase in electricity or insurance premiums for the project.

20. Please provide a brief description of the team or individuals responsible for the implementation of this project, including other consortium members or partners.

This response should include a list of qualifications for the applicant and others associated with the grant. Please list key personnel only. If the application is for a consortium or a partnership, the lead should provide information on its ability to manage the grant in an effective and efficient manner. Include the partner/consortium members' qualifications, skills and experience with innovative project implementation and projects of similar scope.

Enter Implementation Team Key Personnel information by clicking the link below:

[Add Implementation Team](#)

For Questions 21-23 please describe each phase of your project including its timeline, and scope of work.

A complete response to these questions will demonstrate awareness of the context in which the project will be implemented and the time it will take to implement the project with fidelity. A strong plan for implementing, communicating and coordinating the project should be apparent, including coordination and communication in and amongst members of the consortium or partnership (if applicable). Not every specific action step need be included, but the outline of the major steps should demonstrate a thoughtful plan for achieving the goals of the project. The timeline should reflect significant and important milestones in an appropriate time frame.

21. Planning

a. Date Range June 2016- September 2016

b. Scope of activities - include all specific completion benchmarks.

June 2016 (Pre-award): planning team designated, select project manager, select architect, complete drawings, notify building inspectors, bid renovation and upgrades. July 2016 (Upon award): media notification, board approvals/contracts signed, contact architect/maintenance supervisor to proceed with renovations and upgrades, contact equipment vendors to identify equipment delivery schedules. August-September 2016 (Post award): Finalize all renovations and upgrades, conduct building inspections, finalize all aspects of facilities upgrades and improvements.

22. Implementation (grant funded start-up activities)

a. Date Range June 2016-September 2016

b. Scope of activities - include all specific completion benchmarks

June 2016 (Pre-award): planning team designated, select project manager, select architect, complete drawings, notify building inspectors, bid renovation and upgrades. July 2016 (Upon award): media notification, board approvals/contracts signed, contact architect/maintenance supervisor to proceed with renovations and upgrades, contact equipment vendors to identify equipment delivery schedules. August-September 2016 (Post award): Finalize all renovations and upgrades, conduct building inspections, finalize all aspects of facilities upgrades and improvements.

23. Programmatic Sustainability (years following implementation, including institutionalization of program, evaluation and communication of program outcomes)

a. Date Range August 2016-June 2022

b. Scope of activities - include all specific completion benchmarks

A competency based educational model integrates pre/post assessments as embedded measurements for curriculum objectives that RAMTEC centers will assess with e-assessment management systems. 2016--2017: identify instructional competencies required for students in manufacturing pathways? pre-assess student knowledge and prescribe effective training based on the competencies required of the Advanced Manufacturing model being used? (on-going) formative assessments provide data analysis of both individual and class results that identify instructional areas that are weak and need additional teaching: post-testing will occur upon completion of the program and before industry certification tests are taken. 2016--2022: Evaluator will assess: Training effectiveness as a result of assessment system? Performance and satisfaction data collected from students and employers - business oversight, and employer evaluations of student interns and adult employees who are graduates and trained in one of the RAMTEC centers. Benchmarks : graduation, community college credits, passage of industrial certifications, and job placement and students planning to pursue further education, training, or employment? cost savings and cost reallocation per FIT. Administer and manage scope of work/ communication/key stakeholder engagement/consent from all required officers, governing bodies? Consortia Leadership Team meet quarterly thru 2022? META-outcome reporting thru 2022? semi-annual board reports? each CTC provide META access to student data for analysis-include project related surveys/ relevant data to effectively access/analyze data? develop interdependent system of change? manufacturing needs continually assessed and responses from the manufacturers used to adjust instruction and to improve student learning? new CTCs will network with other RAMTEC centers to share/learn best practices to enhance statewide manufacturing centers' instruction.

E) SUBSTANTIAL IMPACT AND LASTING VALUE

24. Describe the expected changes to the instructional and/or organizational practices in your institution.

The response should illustrate the critical instructional and/or organizational changes that will result from implementation of the grant and the impact of these changes. These changes can include permanent changes to current district processes, new processes that will be incorporated or the removal of redundant processes. The response may also outline the expected change in behaviors of individuals (changes to classroom practice,

collaboration across district boundaries, changes to a typical work day for specific staff members, etc.). The expected changes should be realistic and significant in moving the institution forward.

Please enter your response below:

PRCTC is committed to changing the way we go about teaching and learning. Students today engage in technology as early as two years old, yet education still tends to look much like it did in the 1960's. PRCTC will enable our instructors to teach in a blended learning manner using E-learning materials with real life simulators and authentic activities by using hands-on learning to build & operate robotic and advanced automation equipment, design & build parts and share these ideas with each of the other centers through the web. These activities will be CTE/STEM related and address the high academic standards across the disciplines. We will provide CTE students the ability to do hands on, real life activities in the classroom using the identical equipment used in Industry. Professional Development will be provided to each CTE instructor to make sure they are Industry Certified. Cross training will be integrated for career pathway instruction in Welding, Engineering & Advanced Manufacturing, Precision Machining, and Computer Networking. The students in these programs could be offered welding certification, robotics, CNC certification and industrial maintenance certification. This will allow the existing programs to utilize the RAMTEC centers equipment to cross train students and offer them stackable certifications and post-secondary college credits. Each pathway program currently has an advisory committee made from Industry and postsecondary representatives to make sure the program is meeting the guidelines of the state and local Industry. The advisory committees will be updated with the new certifications being offered and make sure they directly correlate to the needs of the job market. Post-Secondary education staff will continue to work with each pathway instructor to ensure dual enrollment opportunities continue to build. Instructors in the 7th, 8th, 9th and 10th grades will be given training that will allow them to become certified.

25. Please provide the name and contact information for the person and/or organization who will oversee the evaluation of this project.

Projects may be evaluated either internally or externally. However, evaluation must be ongoing throughout the entire period of sustainability and have the capacity to provide the Ohio Department of Education with clear metrics related to each selected goal.

Please enter your response below:

Meta Solutions, Tad Douce, Vice President of Innovation and Adult Learning at META Solutions 2100 Citygate Drive |Columbus, OH 43219
614-473-8300

26. Describe the overall plan for evaluation, including plans for data collection, underlying research rationale, measurement timelines and methods of analysis.

This plan should include the methodology for measuring all of the project outcomes. Applicants should make sure to outline quantitative approaches to assess progress and measure the overall impact of the project proposal. The response should provide a clear outline of the methods, process, timelines and data requirements for the final analysis of the project's progress, success or shortfall. The applicant should provide information on how the lessons learned from the project can and will be shared with other education providers in Ohio. Note: A complete and comprehensive version of the evaluation plan must be submitted to ODE by all selected projects.

Consortium partners are partnering with META Solutions to provide an in-depth program of research and evaluation in order to produce key information about the effectiveness of advanced manufacturing implementation how it relates to the student outcomes identified. A systematic research process will be employed with both an internal project team and external evaluator to work on the program evaluation. The evaluation will use both qualitative and quantitative data collection and analysis. A competency based educational model integrates pre/post assessments as embedded measurements for curriculum objectives that RAMTEC centers will assess with e-assessment management systems. 2016--2017: identify instructional competencies required for students in manufacturing pathways? pre-assess student knowledge and prescribe effective training based on the competencies required of the Advanced Manufacturing model being used? (on-going) formative assessments provide data analysis of both individual and class results that identify instructional areas that are weak and need additional teaching: post-testing will occur upon completion of the program and before industry certification tests are taken. 2016--2022: Evaluator will assess: Training effectiveness as a result of assessment system? Performance and satisfaction data collected from students and employers - business oversight, and employer evaluations of student interns and adult employees who are graduates and trained in one of the RAMTEC centers. Benchmarks (disaggregated by gender): graduation, community college credits, passage of industrial certifications, and job placement and students planning to pursue further education, training, or employment? cost savings and cost reallocation per FIT. final analysis of progress, success or shortfall Ongoing formative annual evaluation submitted to the Board of Education and the ODE will continue beyond the grant period and will conclude with a summative program evaluation at the end of the 5 years. All reports will adhere to national standards of confidentiality protecting any personal information. Project leaders will submit proposals to share progress at all state conferences and forums. Project team will communicate progress quarterly to Board of Education and community. Sharing lessons learned across Ohio Additionally, the evaluation will consider the impact of the project as it relates to the conditions for sustainability and expansion across the state.

27. Please describe the likelihood that this project, if successful, can be scaled-up, expanded and/or replicated. Include a description of potential replications both within the district or collaborative group, as well as an estimation of the probability that this solution will prove useful to others. Discuss the possibility of publications, etc., to make others aware of what has been learned in this project.

The response should provide an explanation of the time and effort it would take to implement the project in another district, as well as any plans to share lessons learned with other districts. To every extent possible, applicants should outline how this project can become part of a model so that other districts across the state can take advantage of the learnings from this proposed innovative project. If there is a plan to increase the scale and scope of the project within the district or consortium, it should be noted here.

RAMTEC was designed and built to answer exactly what industry was saying they needed, and as a result, interest is high to find a way to replicate RAMTEC in other counties in Ohio. Further replication of RAMTEC model is the centerpiece of the grant. PRCTC has the capacity to support additional districts and the training mechanisms in place to quickly scale and expand district capacity to implement the model. PRCTC have the existing facilities, administration, instructional and curriculum staff to replicate the RAMTEC philosophy. RAMTEC will share its 2 years of experience to help the consortium members achieve the same goals in six months. PRCTC already has strong partnerships with Post-Secondary institutions, Career & Technical Centers, and business leaders across Ohio. These sites were chosen because JobsOhio data demonstrates that these regions have a large percentage of their workforce employed in advanced manufacturing career

pathways. PRCTC will share certified trainers for specialized instruction while quickly expanding the pool of trained staff by being able to certify additional instructors on the equipment and providing on-going professional development. RAMTEC has successfully done what no other facility in the United States has succeeded in doing by bringing together both Industry and Education partnerships with the largest suppliers of equipment to Industry. These companies have worked with RAMTEC to offer Industry certifications for Robotics, CNC Machining, Welding, Industrial Maintenance, and Mechatronics under one roof. With Ohio having an immediate need for 60,000 workers in advanced manufacturing, we must take advantage of this opportunity. We must keep Ohio as a leader in advanced manufacturing.

By virtue of applying for the Straight A Fund, all applicants agree to participate in the overall evaluation of the Straight A Fund for the duration of the evaluation time frame. The Governing Board of the Straight A Fund reserves the right to conduct an evaluation of the project and request additional information in the form of data, surveys, interviews, focus groups and other related data on behalf of the General Assembly, Governor and other interested parties for an overall evaluation of the Straight A Fund.

PROGRAM ASSURANCES: I agree, on behalf of this applicant, and any or all identified consortium members or partners, that all supporting documents contain information approved by a relevant executive board or its equivalent and to abide by all assurances outlined in the Straight A Assurances (available in the document library section of the CCIP).

Jamie L. Nash, PRCTC Secondary Director, 05/06/2016 Dennis Franks, PRCTC Superintendent, 05/06/2016

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Consortium Contacts

No consortium contacts added yet. Please add a new consortium contact using the form below.

Partnerships

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Partnerships

First Name	Last Name	Telephone Number	Email Address	Organization Name	IRN	Address	Delete Contact
John	Burkhart	419-566-3636	john@istohio.com	iST Ohio		150 Industrial Drive, , Lexington, Ohio, 44904	
Tim	Winland	740-634-3582	tim.winland@pvlsd.org	Paint Valley High School	029025	7454 Us Highway 50 W, Bainbridge, OH, 45612-9708	
Pete	Ruby	740-998-2313	pete.ruby@adenalocalschools.com	Adena High School	000208	3367 County Road 550, Frankfort, OH, 45628-9503	
Jon	Saxton	740-702-2287	jon.saxton@ccsd.us	Chillicothe High School	006296	421 Yoctangee Pkwy, Chillicothe, OH, 45601-1658	
Kirk	McMahon	740-474-4846	kirk.mcmahon@cvcasd.com	Circleville High School	006320	380 Clark Dr, Circleville, OH, 43113-1517	
Keith	Stevenson	740-663-2230	keith.steveson@huntsmen.org	Huntington High School	017160	188 Huntsman Rd, Chillicothe, OH, 45601-9378	
Tim	Williams	740-474-7503	tim.williams@loganelm.org	Logan Elm High School	021212	9575 Tarlton Rd, Circleville, OH, 43113-9448	
Brian	Justice	740-774-2003	brjustice@mail.gsn.k12.oh.us	Southeastern High School	035204	2003 Lancaster Rd, Chillicothe, OH, 45601-9092	
Matt	Thornsberry	740-774-4105	mthornsberry@unioto.net	Unioto High School	037861	14193 Pleasant Valley Rd, Chillicothe, OH, 45601-4055	
Cara	Riddel	740-986-2911	criddel@westfallschools.com	Westfall High School	040683	19463 Pherson Pike, WilliamSPORT, OH, 43164-9745	
Jerry	Mowery	740-775-1809	jmowery@ztlisd.org	Zane Trace High School	042572	946 State Route 180, Chillicothe, OH, 45601-8141	
Robin	Halley	740-983-5054	rhalley@tvsd.us	Teays Valley High School	036962	3887 State Route 752, Ashville, OH, 43103-9551	
Team	Dynamix	614-443-1178	team@dynamix0ltd.com	Dynamix Energy Services		855 Grandview Ave Suite 300, , Columbus, Ohio, 43215	

Implementation Team

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Implementation Team

First Name	Last Name	Title	Responsibilities	Qualifications	Prior Relevant Experience	Education	% FTE on Project
Dennis	Franks	Superintendent	District Oversight	Dennis L. Franks is the superintendent of Pickaway Ross Career and Technology center, where has worked for 27 years. He graduated from University of Rio Grande in 1989 with a B.S. in Business management, completed a M.S. in Educational Leadership from University of Dayton in 1995, and received his superintendents' license in 2010.	Prior to taking over as the district superintendent, he was the director of Adult Workforce Education, where he implemented many programs designed to assist the local business community in developing its workforce. Dennis has over 32 years' experience in education, working for several different organization including universities, community colleges, and career & technical centers. He has been selected to work on several state initiatives designed to implement, streamline, and collaborate educational and workforce development services for better utilization; including, The Governors Executive Workforce Board, The Co-Op and internship Board, The Ross County CIC, The Ohio Skills Bank initiative, The Career Technical Transfer committee, Executive committee member of several state organizations including AWD, OACTS, Knowledge Works and Shifting gears.	University of Rio Grande, B.S. in Business management, completed a M.S. in Educational Leadership from University of Dayton.	5
Jamie	Nash	PRCTC Secondary Director	Will provide complete oversight of the grant, which includes the following: *Facilitation of Project *Securing Project Manager *Securing Architect *Securing Contractors *Processing Requisitions	Jamie has 22 years of experience in the education arena, as well as providing complete oversight of construction project throughout his career. He has held multiple positions throughout the educational system in Ohio, including multiple administrative positions at the highest level. In addition, Jamie has trained in the general industry and construction industry for over 20 years. He has extension experience with construction,	Jamie has 22 years of experience in the education arena, as well as providing complete oversight of construction project throughout his career. Safety Director, Project Manager, Estimator, etc.	A.A.S. Environmental Engineering, B.S., Organizational Communications, Masters of Science in Education and Allied Professions	10

				renovation and facilities upgrades.			
John	Burkhart	President, iST Ohio	Mr. Burkhart's responsibility is to oversee the RAMTEC partnerships with Industry partners. He will coordinate the working relationships with FANUC Robotics, FANUC CNC, Motoman Robotics, Allen Bradley, Parker Hannifen and Lincoln Electric to ensure all training needs and certifications are being properly administered. He will also coordinate the installation and training of each of the RAMTEC partners and ensure instructors are receiving Industry certifications. Mr. Burkhart will oversee requirements for equipment specifications for room layout, electrical requirements and air requirements at each RAMTEC location.	Mr. Burkhart has been working with Ohio's State Department of Adult & Career Technical Education for over 25 years. He has correlated and performed skills needs analysis on equipment and curriculum needed to operate career pathway programs across the state. Mr. Burkhart has been a past Career & Adult Education Hall of Fame inductee as well as being inducted into the North Central State College entrepreneur of the year program.	Mr. Burkhart has worked in the past with the Ohio Department of Adult & Career Technical Education staff to help correlate skills and competencies to Ohio's ITWorks program. The ITWorks program is a very comprehensive program to address Computer Web Page Design, Interactive Multimedia, Computer Maintenance and Digital Design. Mr. Burkhart was partnered with the existing RAMTEC Consortium to ensure communications between Education and Industry and also facilitate RAMTEC facility setup. Mr. Burkhart has worked with the RAMTEC program to ensure skills and curriculum correlations have been met between Education and Industry in the areas of Robotics, CNC Machining, Industrial Maintenance, Robotic Welding and Computer PLC controls	Graduate of North Central State College 1975, Electrical Engineering	5
Allen	Kiger	PRCTC Satellite Supervisor	Oversee and evaluate all secondary programs located off the main campus in the CTPD.	License 4-12 Principal, Masters in Educational Administration, Bachelors in Architecture, Graduate from a Drafting Program at a Career Center	Background in engineering and architecture.	Masters in Educational Administration, Bachelors in Architecture	10
Joshua	Kinnison	RAMTEC Instructor/Teacher	Josh will provide content expertise, facilities layout, equipment	Josh has 15 years of experience for the engineering, manufacturing	6 years active duty in the United States Navy as a Fire Control Technician working with our country's most sophisticated electronics and computer systems. 12 years at Stanley	US Navy Advanced Electronics School Aegis Computer	20

			<p>layout, mechanical and technology needs, etc. He will be responsible for communicating with all stakeholders involved and assuring the lab environment replicates the industry.</p>	<p>and robotics industry. He is currently working within the industry and will bring a very reach perspective to the develop, design and layout of the RAMTEC program and facilities upgrades. An experienced team leader with the ability to initiate/manage cross-functional teams and multidisciplinary projects.</p>	<p>Electric Us working as a Production Engineer in the Coatings Department. He has an extensive knowledge of a variety of Fanuc Robots as well as design and implementation of equipment and strong electronic and mechanical backgrounds. 15 years of experience in training, development and mentoring.</p>	<p>Networking School Electro-Mechanical Engineering Tech, CSU B.A. Business, OCU</p>	
Craig	Jones	PRCTC Facilities Manager	<p>Will provide facilitation of the grant, which includes the following: *Facilitation of Project *Securing Project Manager *Securing Architect *Securing Contractors *Processing Requisitions. Craig will work with all contractors, vendors, instructors and administration.</p>	<p>Craig has over 27 years of experience in facilities maintenance. International Brotherhood of Electrical Workers Four Year Apprenticeship, 1985-1989 The Ohio State University - Agricultural Technical Institute Agricultural Mechanics Major, 1983-1985</p>	<p>Pickaway-Ross CTC Maintenance Department New Page Corporation Electrical/Instrumentation/Maintenance Supervisor Midwest Electric Electrical, mechanical and general maintenance of equipment at New Page, Pillsbury/Jeno's, Mead Paper Company and Premier Auto Glass United Electric Electrician at Honda Plant</p>	<p>International Brotherhood of Electrical Workers, Four Year Apprenticeship. The Ohio State University - Agricultural Technical Institute</p>	10