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Adjusted Allocation: 0.00

Remaining: -287,000.00
Applicants shall respond to the prompts or questions in the areas listed below in a narrative form.

A) APPLICANT INFORMATION - General Information, Experience and Capacity

1. Project Title: UP WITH SCIENCE K-12

2. Executive summary: Provide an executive summary of your project proposal and which goal(s) in question 9 you seek to achieve. Please limit your responses to no more than three sentences.

It is summarized, UP WITH SCIENCE, will use evidence-based strategies, professional development, and computerized technology/science labs to provide students in grades K-12, fully deparmentalized science teachers, and administration with the knowledge, skills experience and confidence in student-based problem solving; assessment and intervention techniques for students with academic problem; Common Core Standards including College and Workplace Ready goals aligned with science; and data-based evaluation of student outcomes. The data will show results: 1) increased student achievement; 2) a five year forecast with genuine spending reductions as evidenced by a decrease in monies requested by local taxpayers and state OSFC fund renovations. The current 2003 building addition will be updated with portable labs. 3) Increased classroom resources will be available through the use of inquiry based computer lab activities. At-risk students will benefit from assessment instruments that will assist science teachers to develop student-specific programs with appropriate interventions including the detection and intervention of academic problems.

B) PROJECT DESCRIPTION

8. Please provide a brief description of the team or individuals responsible for the implementation of this project including relevant experience in other innovative projects. You should also include descriptions and

1. The IMPLEMENTATION TEAM is comprised of highly qualified personnel that have a history of innovative research and development in education. This team will form the Project Advisory. PRIMARY CONTACT: Jackson Center Schools SUPERINTENDENT WILLIAM REICHERT has personally directed the following initiatives: 1) Race to the Top for Jackson Center Local School District. Budget $100,000. The team has designed/adopted a new teacher and principal evaluation system, updated curriculum in reading and math in grades K-12, reduced achievement gaps for subgroups on OAsAs and OStIs, and are currently piloting data systems to track student data (IIS). The district has gone from effective to Excellent. 2) Worked with the federal Elementary and Secondary School Counseling Grant. Budget $1,200,000. 3) Is currently working on an eminent building project 4) Actively worked on community park and school levies. SECONDARY CONTACT: HIGH SCHOOL BIOLOGICAL SCIENCE TEACHER JAN DAVIDSON. Masters in Science Teaching, Wright State University 1999. Developed tech prep programs, certified advance placement teacher, member of the Race to the Top leadership team, and served as department chair over k-12 science. She has served on the ODE State Committee of OhioBiology Content Advisory. SECONDARY CONTACT: JACKSON CENTER HIGH SCHOOL PRINCIPAL JEFF REESE. Developed and organized Science Developmental Teams for Jackson Center. Leader of team meetings which include: the common Core, IIs, OTEs, SECONDARY CONTACT: JACKSON CENTER ELEMENTARY SCHOOL PRINCIPAL GINGER HUCKER. Developed and organized Science Departmental teams for Jackson Center School. PARTNER HONDA OF AMERICA. ENGINEER GREG WOOLEY - B.S. in Mechanical Engineering from the University of Dayton. Staff Engineer for New Model Quality *Honda of America has supported the Society of Automotive Engineers World in Motion program for over 10 years, and I personally have been the site leader at Jackson Center Schools for 5 years. Honda is invested in this program, and numerous other programs, to promote student's pursuit of Science, Technology, Engineering, and Mathematics. Fostering the development of local engineering is essential to the continued growth and success of Honda in Ohio. Any other resources, such as computers, that can be obtained, will only further enhance this interest and development.* PARTNER VILLAGE ADMINISTRATOR OF JACKSON CENTER: Bruce Metz - lead engineer for street, sewer and electrical improvement plans, the wastewater treatment plant and parks and recreation and chief of the fire department. PARTNER: SHELBY COUNTY ESC LIAISON. SYBIL TRUSTER. She has directed the following initiatives: 1) Ohio Drug and Safety Schools Grant. A COLLABORATION with all eight school districts in Shelby County. Budget: $600,000. 2) Federal Elementary and Secondary School Counseling Grant - an 8 school COLLABORATION. Budget: $1.5 million. 3) RIT Innovation Grant Project ACHIEVE a COLLABORATION with 8 School Districts. Budget: $750,000. 3) Additional grants from a business PARTNER with Cargill, Alcoa, United Way, and the Shelby County Community Foundation to support Parent Project for at-risk students and parents. Funding: $162,000. EXTERNAL EVALUATOR: TOM MANDRIS. He presently serves K-12 students in Shelby County. He is an adjunct instructor in psychology and has taught at Sinclair Community College, the University of Dayton, Wright State University, and Wilmington College. He was principal investigator for a mini-grant utilizing a transdisciplinary approach to services within a developmental center. His research has been published in the Journal of Educational and Psychological Measurement.

9. Which of the stated Straight A Fund goals does the proposal aim to achieve? - (Check all that apply)

A) Student achievement
B) Spending reductions in the five-year fiscal forecast
C) Utilization of a greater share of resources in the classroom

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

A) New - never before implemented
B) Existing and researched-based - never implemented in your district or community school but proven successful in other educational environments
C) Mixed Concept - incorporates new and existing elements
D) Enhancing/Scale Up - elevating or expanding an effective program that is already implemented in your district, school, or consortia partnership

11. Describe the innovative project.
highly successful K-5 Inquiry Based Program (aligned with the Common Core Standards). This initiative was started in the 2009-10 school year and currently includes a k-14 departmentalized staff dedicated to science. It has made a difference: the performance index scores have progressed from 93.7 in 2010 to 103.3 in 2013. The following GOALS have been noted with proposed SOLUTIONS to grow science in Jackson Center:

GOAL 1 = INCREASED STUDENT ACHIEVEMENT

1. Describe how it will meet the goal(s) selected above. - If school/district receives school improvement funds/support, include a brief explanation of how this project will advance the improvement plan.

2. Provide a brief narrative explanation of the overall budget. The narrative should include the source and amount of other funds that may be used to support this concept (e.g., Title I funding, RTI money, local funding, foundation grants, etc.). Include details on how the dollar amounts will be spent in the budget. The proposed budget includes the purchase of the following items:

- LabQuests: $25,200.00
- Field probes: $2,957.00
- TI-84 Plus Graphing Calculators: $29,950.00
- Vernier Science Lab Software: $2,700.00
- Student science lab kits: $2,000.00
- Anatomical models: $500.00
- Teacher development: $5,000.00
- Professional development: $2,000.00

- TOTAL = $55,700.00

- Local monies from Jackson Center School District = $5,500.00
- Federal local monies = $2,000.00
- State local monies = $2,000.00

- TOTAL = $20,000.00

3. What is the total cost for implementing the innovative project?

- $287,000.00 * Total project cost

4. Provide a brief narrative explanation of the overall budget. The narrative should include the source and amount of other funds that may be used to support this concept (e.g., Title I funding, RTI money, local funding, foundation grants, etc.). Include details on how the dollar amounts will be spent in the budget. The proposed budget includes the purchase of the following items:

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- Federal local monies = $2,000.00
- State local monies = $2,000.00

- TOTAL = $20,000.00

5. What are new/recurrent costs of your innovative project will continue once the grant has expired? If there are no new/recurrent costs, please explain why.

- $500.00 * Specific amount of new/recurrent cost (annual cost after project is implemented)

- Narrative explanation/rationale: Provide details on the costs included in the budget (i.e. staff costs and supplies/benefits, equipment to be purchased and cost, etc.). If there are no new/recurrent costs, please explain why.

- There are minimal costs that will be required to maintain and sustain UP WITH SCIENCE permanently beyond the duration of the grant. All equipment is covered by a three to five year warranty. Additional costs are based on recurring renewals. GOAL 1 = INCREASED STUDENT ACHIEVEMENT - 600 CAPITAL OUTLAY TOTAL AMOUNT = $276,200.00 Local funding from Jackson Center Schools will contribute $2,000.00 to be used for anatomical scales and student materials. 1. Mobile charged computer labs that each hold 15 PC notebooks computers fully equipped with the latest Windows technology, Microsoft office products and Anti-Virus solutions. One will be used for each set of Science classes (k-12) (6-8 - 9-12) Each lab complete lab cost $15,200.00 x 5 labs TOTAL = $76,000.00 2) LabQuest Packages are essential for the UP WITH SCIENCE proposal. These setting provides the sensors, equipment, curriculum for student centered experiences. They progress UP from elementary to high school. LabQuest Elementary School Package for students in grades k-5 These experiments include: Air Resistance, Acid-Base Titration, Cell Respiration, Beer's Law, Enzyme Action, Grav Percent Comparison, a-Motion, Reflection of Light and more. Cost for one set of 18 $1,419.00 x 15 computers = $21,285.00 LabQuest Middle School Package for students in grades 6-8 These experiments include: Heating of land and Water, The Greenhouse Effect, Absorption of Radio Energy, Schoolyard study and more. Cost for one complete set $1,549.00 x 15 computers = $23,235.00 LabQuest High School Package for student in grades 9-12 These include in the analysis of Biology, Physical Science, General Science, General and Chemistry. There are numerous experiments in every area tied to the Common Core. Biology Package = $2,957.00 x 15 computers = $44,355.00 Physics Package = $2,380.00 x 15 computers = $35,700.00 Chemistry Package = $2,700.00 x 15 computers = $40,500.00

- TOTAL = $55,700.00

6. Are there expected savings that may result from the implementation of the innovative project?

- $60,000.00 * Specific amount of expected savings (annual)

- Narrative explanation/rationale: Provide details on the expected savings that may result from the implementation of the innovative project (i.e. sta cost cuts and supplies/benefits, equipment to be purchased and cost, etc.)

- C) Utilization of A GREATER SHARE OF RESOURCES IN THE CLASSROOM will require no additional monies.

- This standard Center $1,000 to $2,000 in costs for the implementation of the grant will assist in the grant. GOAL 3 = UTILIZATION OF A GREATER SHARE OF RESOURCES IN THE CLASSROOM $4,000 TOTAL = $200,000.00

- TOTAL = $200,000.00

- There are no additional costs that will be required to implement the UP WITH SCIENCE project.

C) SUSTAINABILITY - Planning for ongoing funding of the project, cost breakdown

1. Financial Documentation - All applicants must enter or upload the following supporting information. Responses should refer to specific information in the financial documents when applicable:

a. Enter a project budget

b. Upload the Straight A Financial Impact Template forecasting the expected changes to the five-year forecast resulting from implementation of this project. If applying as a consortia or partnership, please include the five-year forecasts of each school district, community school or STEM school member for review.

c. If subsection (b) is not applicable, please explain why, in addition to how the project will demonstrate sustainability and Impact.

N/A

2. Describe how it will meet the goal(s) selected above. - If school/district receives school improvement funds/support, include a brief explanation of how this project will advance the improvement plan.

3. Provide a brief narrative explanation of the overall budget. The narrative should include the source and amount of other funds that may be used to support this concept (e.g., Title I funding, RTI money, local funding, foundation grants, etc.). Include details on how the dollar amounts will be spent in the budget. The proposed budget includes the purchase of the following items:

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- Local monies from Jackson Center School District = $5,500.00
- Federal local monies = $2,000.00
- State local monies = $2,000.00

- TOTAL = $20,000.00

6. Are there expected savings that may result from the implementation of the innovative project?

- $60,000.00 * Specific amount of expected savings (annual)

- Narrative explanation/rationale: Provide details on the expected savings that may result from the implementation of the innovative project (i.e. sta cost cuts and supplies/benefits, equipment to be purchased and cost, etc.)
17. It's (Randolph 2011) showed that LabQuest utilizing technology to solve general science questions and conceivably assist the community in resolving scientific issues (i.e. Is the water in the city park safe to drink? How much weight can forty year old personnel in the affected entities.)

18. The project will be self-sustaining because our district budgets annually for technology upgrades and science lab materials (approximately $10-15,000 annually). A project of this magnitude would not be feasible under normal circumstances, but the maintenance of the project could be done with normal yearly budgeted money.

D) IMPLEMENTATION - Timeline, communication and contingency plan

E) STAKEHOLDERS INVOLVED = Jackson Center Superintendent, treasurer, elementary and high school principal, science teachers, Shelby County Educational Service Center Liaison, external evaluator, representatives from Honda and the Village Administrator. MILESTONE 1 = Receipt of Award Letter on 12/17/2014. MILESTONE 2 = Announce award to all UP WITH SCIENCE stakeholders including: the IMPLEMENTATION TEAM; Jackson Center staff; Board of Education members, students, parents, and community. MILESTONE 3 = The IMPLEMENTATION TEAM will be established for project implementation. MILESTONE 4 = The IMPLEMENTATION TEAM will meet to review the timeline and their proposal element which must be activated. This includes: the project director will schedule professional development meetings, baseline meetings, and the external evaluator will work with science teachers, the community, and business. It is conceivable that some dates may conflict with a representative’s schedule. COMMUNICATION SOLUTION: An IMPLEMENTATION TEAM member who cannot attend a meeting will be asked to find a substitute for them. MILESTONE 4 = The IMPLEMENTATION TEAM will meet to review the timeline and their proposal element which must be activated. This includes: the project director will schedule professional development meetings, baseline meetings, and the external evaluator will work with science teachers, the community, and business. It is conceivable that some dates may conflict with a representative’s schedule. COMMUNICATION SOLUTION: An IMPLEMENTATION TEAM member who cannot attend a meeting will be asked to find a substitute for them.

MILESTONE 5 = Members of the IMPLEMENTATION TEAM will be activated which includes: ordering equipment; dissemination of announcement of the grant; contacting the external evaluator; establishing communication routines; and the development of an initial project timeline. MILESTONE 6 = Equipment will arrive at the school. Professional development will continue including: ordering equipment; disseminating the grant; contacting the external evaluator; establishing communication routines; and the development of an initial project timeline. MILESTONE 7 = The external evaluator will collect data from Science teachers and parents. MILESTONE 7 = The external evaluator will collect data from Science teachers and parents. MILESTONE 8 = The external evaluator will collect data from Science teachers and parents. MILESTONE 8 = The external evaluator will collect data from Science teachers and parents. MILESTONE 9 = The external evaluator will collect data from Science teachers and parents. MILESTONE 9 = The external evaluator will collect data from Science teachers and parents. MILESTONE 10 = Students completing science research and/or projects may be invited to present their findings at the Jackson Center Board of Education, Jackson Center Village Council, Regional Science Fair, and/or State Science Fair. POSSIBLE BARRIER: Students live in a rural area and transportation may be a problem. SOLUTION: the school will provide transportation for students. MILESTONE 11 = (10/15/2014) Completed report sent to the Ohio Department of Education. The treasurer will include financial savings information. MILESTONE 12 = (10/30/2014) IMPLEMENTATION TEAM plans UP WITH SCIENCE activities for school year 2014-2015.
20. Describe the rationale, research or past support that supports the innovative project and its impact on student achievement, spending reduction in the five-year fiscal forecast or utilization of a greater share of resources in the classroom.

21. Is this project able to be replicated in other districts in Ohio?

22. If so, how?

23. Describe the substantial value and lasting impact that the project hopes to achieve.

24. What are the specific benchmarks related to the fund goals identified in question 9 that the project aims to achieve in five years? Include any other anticipated outcomes of the project that you hope to achieve that may not be explicitly specified in the fund goals.

GOAL 1 = INCREASED STUDENT ACHIEVEMENT OUTCOME 1 = By June 2014 eighty percent of students will show a increase in science knowledge and inquiry: Students in grades K-1 and 2-3 will show a 20% gain through a pre and post assessment. Students in grades 4-5 and 6-8 will show one year's growth on the Terra Nova Test and Value-Added Scores. Students in grades 9-12 will pass science AP tests, the OGT, and end of year exams in Science. BENCHMARK 1: Baseline data has been collected that all students in Science based on the assessments as described under OUTCOME 1. BENCHMARK 2: During school year 2013-2014 Science teachers will conduct Vierlan LabQuest experiments and projects. Assessments will be compared to baseline data. BENCHMARK 3: Creativity and innovation - students will think creatively, construct knowledge, and develop innovative products using technology. (A) Apply existing knowledge to generate new ideas. (B) Use technology for creative self-expression. (C) Use systems thinking to explore complex issues. (D) Identify trends and forecast possibilities. BENCHMARK 4: Students will use LabQuest experiments to communicate and work collaboratively to support individual learning. (A) Collaborate, publish, and interact with peers and mentors. (B) Contribute to project teams to produce original works. BENCHMARK 5: Research and information Retrieval - students will access, retrieve, manage, and evaluate information using digital tools. (A) Locate, organize, analyze, evaluate, synthesize, and use information. (B) Evaluate and select information sources and technological tools based on the appropriateness to specific tasks. (C) Processes of Information retrieval and retrieval (D) Use and develop technological tools and Library of Learning tools to solve problems. BENCHMARK 6: Critical thinking, problem solving: Students will use critical thinking skills to plan and conduct research, manage projects, solve problems and make informed decisions using appropriate technology tools. (A) Identify and define authentic problems and significant questions for investigation and plan strategies to guide inquiry. (B) Plan and manage activities to develop solutions and complete projects. (C) Collect and analyze data to identify scientific conclusions. (D) Use technology tools to extend and diversify students' thinking. BENCHMARK 7: student data will be collected over the five year and will show significant growth through year to year. The project has shown that mobile labs have a positive impact on student performance.

UP WITH SCIENCE creates a MODEL THAT CAN EASILY BE REPLICATED by other school districts. Mobile Science technology is the focus of the entire grant. Many small districts are limited to one classroom with computers. Most of these computers are desktops and not mobile. The educational world has changed. Teachers must utilize a greater share of resources. Moving Science to a mobile lab with Vierlan LabQuest software and technology brings science studies not only to the classroom but to numerous sites where students can develop an hypothesis and have the resource to collect data, conduct experiments, and share findings. We propose that the LabQuest can virtually isolate the research and development environment into the classroom. BENCHMARK 1: LabQuest IMPLEMENTATION TEAM and Science teachers are prepared to share the strategies - both fiscal and scientific programs throughout the state. Student data will be collected and over the period of the grants (Completed data results will be disseminated at every IMPLEMENTATION TEAM meeting by the external evaluator.) Elements of the final report will be written for publication in the National Science Teachers Association Journal and will present science educators with a positive avenue on how to present lab data and will share results at Shelby County Administrative Meetings. The Shelby County Educational Service Center liason will share results with OESCA. Jackson Center views UP WITH SCIENCE as a shift in the paradigm of teaching Science. This model will be welcomed by numerous school districts.

25. Describe the plan to evaluate the impact of the concept, strategy or approaches used.

26. Include the process, method or approach by which the program will modify or change the program plan if measured progress is insufficient to meet program objectives.

UP WITH SCIENCE will be evaluated for each Outcome and include short- and long-term objectives. Goal 1 = INCREASED STUDENT ACHIEVEMENT OUTCOME 1 = By June 2014 eighty percent of students will show an increase in science knowledge and inquiry: Students in grades K-1 and 2-3 will show at least a 20% gain through a pre and post assessment. Students in grades 4-5 and 6-8 will show at least one year's growth on the Terra Nova Test and Value-Added Scores. Students in grades 9-12 will pass science AP tests, the OGT, and end of year exams in Science. Goal 2 = SPENDING REDUCTIONS IN THE FIVE-YEAR FISCAL FORECAST: Jackson Center will estimate a reduction in spending over the five-year fiscal forecast. Key savings will result from: 1) fewer mobile labs and technology available; 2) use of technology to develop curricula; 3) creation of a vertical science program which emphasizes the Common Core and 4) ongoing monitoring.
parties for an overall evaluation of the Straight A Fund.

PROGRAM ASSURANCES: I agree, on behalf of this applicant agency and/or all identified partners to abide by all assurances outlined in the Assurance section of the CCIP. In the box below, enter "I Accept" and indicate your name, title, agency/organization and today's date.

I Accept William Reichert, Superintendent, Jackson Center Local School District, 10/22/2013