

Data Collection Form

Part A: Project Information
(To be completed by all Proposers)

Okaloosa RESTORE Advisory Committee

Approved by the Okaloosa RESTORE Advisory Committee: December 4, 2014
Okaloosa County, Florida

1/17/2014

INTRODUCTION

The purpose of this data collection form is to assist Okaloosa County in prioritizing projects submitted for Direct Component (“Pot #1”) funds allocated from the Gulf Coast Restoration Trust Fund through the Resources and Ecosystems Sustainability, Tourist Opportunities and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act).

The following terms are used in this data collection form:

- Applicant - the Okaloosa County Board of County Commissioners (BOCC)
- Project Proposer - the individual or organization completing this form
- Responsible Entity - the Okaloosa County BOCC

Prior to initiating this data collection form, it is recommended the Project Proposer download and review the entire form to understand the range of required information. Tools/data required to complete this form may include: permits, interlocal agreements, comprehensive plans, evidence of property ownership, and estimated project costs. Completing all required information in the collection form may require many hours; this will be a function of project complexity and proposer preparedness.

This data collection form differs from the U.S. Treasury Application Form (RESTORE Act Direct Component Guidance and Application to Receive Federal Financial Assistance; August 2014). This data collection form was designed to assist the Okaloosa RESTORE Advisory Committee (ORAC) in their task of developing a recommended list of potential projects for inclusion in the BOCC’s Multi-Year Implementation Plan (MYIP).

Projects that are identified for funding in the MYIP will require additional information from the Project Proposer. Although completion of Part C of this data collection form is not required at this time, the Project Proposer is encouraged to thoroughly review Part C to ensure the ability to fully comply with the minimum information required by the U.S. Treasury for project funding. If a proposed project is ultimately included in the approved MYIP, failure of the Project Proposer to then provide the required project information in Part C may preclude funding for that project.

Per RESTORE Act guidance, the responsible entity shall be solely responsible for the execution of each funded project, including procurement of professional services and/or construction services. The Okaloosa County BOCC (the responsible entity) reserves the right to delegate these services to sub-entities with the demonstrated capability to comply with all County and Federal procurement processes required by the RESTORE Act.

By proposing a project through this data collection form, the Project Proposer acknowledges there is no guarantee the proposed project will be funded. Further, the Project Proposer acknowledges no reimbursement or compensation shall be provided for completing the data collection form or any other activities associated with proposing a project.

Part A: Project Information

NOTE: Incomplete applications will not be considered. By submitting this project proposal, the proposer certifies that the statements herein are true, complete and accurate to the best of his/her knowledge. Any false, fictitious, or fraudulent statements or claims may cause the application to be rejected without the opportunity to re-submit.

A.1 Project Proposer: Provide the name and contact info of the Project Proposer.

Tim Sexton
4790 Rolling Field Lane
Holt, Florida
Cell: 850-3980949

A.2 Point of Contact: Provide the name and contact information of the person to be contacted on matters concerning this project (POC).

Tim Sexton
4790 Rolling Field Lane
Holt, Florida
Cell: 850-3980949

A.3 Proposed Activity Name: Provide the name of the Proposed Activity.

Unmanned Aerial Vehicles Technology Program

A.4 Claimed in Oil Liability Trust Fund After July 6, 2012: Was this proposed activity included in any claim for compensation paid out by the Oil Spill Liability Trust Fund after July 6, 2012?

Yes (STOP. This activity is not eligible.)

No X

A.5 Qualifying Eligible Activity: Please check the primary eligible activity in the first column and then all other eligible activities that apply in the second column by placing an 'X' in the column in the row corresponding to the qualifying eligible activity.

Select Primary Activity (Select only one)	Select All Others That Apply	Qualifying Eligible Activity
		Restoration and protection of the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches and coastal wetlands of the Gulf Coast Region
		Mitigation of damage to fish, wildlife and natural resources
		Implementation of a federally approved marine, coastal, or comprehensive conservation management plan, including fisheries monitoring
X	X	Workforce development and job creation
		Improvements to or on State parks located in coastal areas affected by the Deepwater Horizon oil spill
		Infrastructure projects benefitting the economy or ecological resources, including port infrastructure
		Coastal flood protection and related infrastructure
		Planning assistance
		Promotion of tourism in the Gulf Coast Region, including recreational fishing
		Promotion of the consumption of seafood harvested from the Gulf Coast Region

A.6 Location of Activity: Provide the project location. If there is more than one location for the activity, attach a list of the additional locations.

A.6.1 Address: Provide the actual address for the activity (street address, municipality(ies), county/parish, state, zip code). (If there is no street number, provide the nearest intersection or note boundaries on map submitted with Question A.6.2.)

Latitude/Longitude (if available): _____

Street address: 6261 Old Bethel Rd. Crestview

Municipality(ies): _____

County/parish: Okaloosa

State: Florida

Zip code: 32536

A.6.2 Map: Provide a map of the project location and the area affected by the project.

A.6.3 Property Ownership: If project requires the use of land, provide details of property disposition to include land acquisition, ownership, agreements to use property, permits, easements, etc.

Okaloosa County School District

A.6.3.1 Attach documentation (i.e. letter of commitment, Memorandum of Understanding, deed, etc.)

A.7 Project Schedule: Provide a proposed project schedule to include: start date (MM/YY), end date (MM/YY), and major milestones.

Start: January 2016
End: TBD

A.8 Monitoring: During the project & following its completion, will the project be subject to a monitoring program to evaluate project success?

No

Yes (provide information on monitoring and evaluation)

Students will be assessed through curriculum assessments and completion of models.

A.9 Management/Maintenance Program: Will the project be subject to a management/maintenance program to ensure project success?

X No

Yes (Provide information on how the project will be monitored and maintained as well as the party (or parties) responsible for performing these tasks.) (240 words max.)

A.10 PROJECT SUMMARY

Provide a narrative of your project and why this project should be funded. Discuss the following items as a minimum:

- Economics of the project: Explain how the overall budget supports the proposed work
 - o Project Expenditures (long term and short term)
 - o Project Revenues (sales, donations, etc.)
- Other funds to be used in addition to Direct Component funds
- Key personnel involved with the project
- Specific objectives
- Permits or land acquisition required
- Design status
- Similar project success or if new technology explain
- Environmental impact (species affected, existing plans supported, etc.)
- Risks to implement and maintain the activity
- Jobs Created (short term, long term, and wage scales)

(1,500 words max)

Economics of the project:

Davidson Middle School is seeking for \$89,750 to purchase engineering tools that will teach Science, Technology, Engineering and Math (STEM) students the design process of 3D printing to build and test fly Unmanned Aerial Vehicles.

Project Expenditures (long term and short term):

1. Teacher certification and training -- National University online 3D certification = \$700, UAV pilot training certification \$4500 (Unmanned Vehicle University)

2. Surface Pro 3 tablets for each student and Service Plans Surface Pro3 with keypad, pen, case and 3 year service agreement =\$1122 x 25 tablets. Charging/storage cart = \$2300

3. 3D printers and supplies -- Afinia H800 3D Printer = \$1899 x 5 -- This many is needed so more students can get more printed. Supplies for the printer are the replacement filaments to last a couple of years. \$4500. Maintenance and replacement parts = \$2500
4. UAV assembling kits – ELEV-8 V2 Quadcopter Kit = \$710 x 15 (2 students per kit) UAV replacement parts or extra parts -- \$8500
- UAV flight simulator software -- Runtime Games Phoenix R/C Pro Simulator -- 25 x 220 = \$5500

Project Revenues (sales, donations, etc.): None

Other funds to be used in addition to Direct Component funds: None

Key personnel involved with the project:

Tim Sexton, Social Studies Teacher
Beth Walthall, Principal, Davidson Middle School

Specific objectives:

Providing students with the opportunity to work with Surface Pro 3 tablets and 3D printers to create Unmanned Aerial Vehicles will not only create interest in the area of our STEM subjects, but could also help them seek careers in other related fields such as designing, engineering, flight technology, robotics, programming and other opportunities they can seek at the high school level. The skill set and confidence they will receive with a hands-on program early in their education could lead them even further than high school; college or other technical schools will no longer seem out of their reach or scope of knowledge. This program is designed to reach those students – middle school age students who are just not motivated by the traditional classroom setting.

Permits or land acquisition required: FAA may need me to have a permit.

Design status: I currently have a STEM class that works on the engineering design process. Most have done CADD and flight 15 day modules.

Process:

The UAV Program will start with incoming 6th graders and progress through 7th and 8th grade.

Sixth grade students will learn the basics of CADD programs, scale models, research and 3D design. They will also learn about UAV's and their many uses in the local area and in businesses.

Seventh grade students will continue the design process by creating an actual UAV shell. They will study the concept and electronics used in getting UAV to fly. They will then assemble the UAV and prepare for flight. The students will learn how to program/code the UAV to fly and return to home after completing a mission.

Finally, eighth grade students will continue flight of the UAV's, how to redesign them for specific purposes and how to experiment with them. They will study the FAA regulations and

how to follow those guidelines. The students will also learn how to repair and troubleshoot UAV's. Mobile apps will also play an important role in the use of the UAV's.

Similar project success: Forest High School in Ocala Florida, Raymond James Educator. We talked about the lesson they did using UAV's to apply trigonometry concepts. It was successful and students got a better understanding of the sine/cosine graphs. We talked about it applying to other math concepts such as geometry, pre-algebra and even language arts when writing their solution to their findings in a journal.

Environmental impact: None

Risks to implement or maintain the activity: None

Jobs Created:

In a report released by the NMC Horizon Project, 3D printing will have a massive impact on education, particularly in the STEM areas in the next 3-5 years. Students who are trained in this technology and continue through the high school CHOICE program have the potential to earn \$35,000 lower level to over \$100,000 higher level.

Also, in a MyCorporation infographic, it is estimated that 3D printing will become a \$5.2 billion industry by 2020, with a projected 14 percent annual growth between 2012 and 2017. The types of jobs students can seek are in the following areas: 3D design, 3D computer-aided design (CAD) modeling, Research and Development (R&D), and biological and scientific modeling. The UAV's career outlook includes the creation of 70,000 new U.S. jobs within the next three years, and 100,000 new U.S. jobs by the year 2025.

A.11 Requested Funding Amount: How much Direct Component (Pot #1) funding is being requested for this project?

89,750

A.11.1 Other Funding: Is additional funding, outside of this request, being used for the project?

☒ No

☐ Yes (provide information on all additional funding sources and amounts.)

A.11.2 Funding Under \$90,000: Is the requested funding under \$90,000?

☒ Less than or equal to \$90,000 (Application is complete)

☐ More than \$90,000 (Proceed to Part B)

END OF PART A