

Bay County RESTORE Act Direct Component Proposals 2014-2015

<b>Proj #</b>	Bay PRP 2014-006
<b>Project Name</b>	Bettering Bay through Environmental Science and Policy: Postsecondary partnership between Gulf Coast State College and Florida State University Panama City
<b>Project Proposer, affiliation, web site</b>	Ginger Littleton FSU employee www.pc.fsu.edu
<b>Project Description</b>	Both Gulf Coast State College and Florida State University Panama City will implement a plan of study that leads to either a Certificate in Environmental Science: Policy Option or to a Minor in Environmental Science and Policy. These courses of study will specifically focus on environmental and policy challenges to Bay County. Courses will include foundational content as well as environmental/economic and oceanographic study.
<b>Proj. Size (acres)</b>	490953
<b>Economic</b>	RESTORE requires actions to maintain and improve our aquatic environment. Businesses will arise from this emphasis, and our labor force will need expertise to fully understand the economic impact of a healthy environment and the ability to develop policy that protects and sustains that environment.
<b>Environmental</b>	As business is created focusing on the economic impact of a healthy environment, it will require local expertise grounded in the sciences and with the knowledge needed to plan for future challenges and to avoid or overcome them. This project will develop that expertise.
<b>Social</b>	Knowledge is power. Gulf Coast and FSU PC will join together to create a cadre of leaders with the content background to sustain and to improve our environment and its impact on the economy. These institutions will create a social network of leaders who can lead for today and plan for tomorrow.
<b>Other</b>	A more environmentally literate society benefits all society, and with our economy tied so closely to the environment, the more people know, the better we all are and the better we can protect our precious resources.
<b>Project Location</b>	Courses will be delivered at Gulf Coast State College and at FSU Panama City. Registration, coordination, recruitment and delivery of courses as well as evaluating student success and determining curricular modifications will be handled on these two campuses.
<b>Est total project cost</b>	\$234,600
<b>Amount requested</b>	\$234,600
<b>Describe what funds will be used for</b>	Funding will include Instructors for the content-specific courses and supplies required for this program.
<b>Long term funding needed? Source? Availability?</b>	A successful program of studies will build as employment opportunities increase and businesses tap into the increased value of employees who have a deep knowledge of environmental science and policy. Funding after five years will be generated by tuition and Education and General funds through FSU.
<b>Est yrs completion</b>	3-6
<b>Matching \$ available?</b>	
<b>Match source? Secured?</b>	
<b>Amount match secured</b>	

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<b>% proj cost from match</b>	
<b>Partners anticipated?</b>	Yes
<b>Partner names</b>	Gulf Coast State College
<b>Funds request other source?</b>	Yes
<b>If yes, name source, decision date</b>	Florida State University holds an account titled "Education and General" funds which are invested in courses that expand and extend the scope and reach of what FSU can offer. This mechanism is already in place.
<b>Proj fully funded by other source?</b>	
<b>FULL PROPOSAL FORM</b>	
<b>Project number (proposal)</b>	Bay PRP 2014-006
<b>Submittal date proposal</b>	2/5/2015
<b>Project name (proposal)</b>	Bettering Bay County through Environmental Science and Policy: Postsecondary Partnership ...
<b>Applicant name</b>	Florida State University
<b>Project description (proposal)</b>	<p>Environmental Science is a field that continues to grow and according to the Department of Labor Statistics, this field is growing at a rate of 15%, faster than average areas. Median pay for this field is \$63,570. Bay County should be considered the poster child for the importance the environment plays on where and how "we live, work and play."(Bay County CofCslogan) Our residents seek the areas that are clean, beautiful and that offer the natural beauty that is so desirable. Our visitors flock to the beaches and fisheries to enjoy the bounty that our bays and Gulf provide. Our livelihood is impacted, positively or negatively, by the health and beauty of our natural resources.</p> <p>If these elements are so important to our lives and to our livelihoods, then it seems reasonable that we should be not only focusing on jobs, but also on supplying the professionals who will have the expertise for the jobs created. If there is to be a focus on the environment and on improving/maintaining/sustaining that environment, then there should also be a focus on developing the expertise in our current workforce and on creating an interest in our future workforce for the same. This project proposes to do just that. For the jobs that are being created in fields relating to environment and the health of our Gulf, FSU Panama City and Gulf Coast State College will offer either a certificate or a Minor in Environmental Science and Policy. The science portion relates to the chemistry, biology, physics of our environment from stormwater management to waste reduction. The policy portion relates to assisting policymakers in developing legislation that supports a healthy environment and preserves our local economy through that support.</p> <p>Gulf Coast State College will supply personnel and curriculum that leads to a certificate in Environmental Science and Policy. The certificate targets people currently employed by various local organizations and agencies that need employees with specific expertise that enhances the ability of the business to serve the needs of Bay County. This does not in itself lead to a degree, but rather to additional credentials that make the employee more valuable.</p> <p>Florida State University Panama City will provide the program of studies that lead to a Minor in Environmental Science and Policy. For example, a Civil Engineer may desire additional coursework that allows him/her to become involved in legislative action and to lobby for local environmental action. It may also serve as a stepping stone to a more advanced degree as a student gains a more thorough understanding of the field and of ways to preserve and protect our local environment.</p> <p>Course of Study GCSC Certification in Environmental Science and Policy Gulf Coast State College EVR 1001 Introduction to Environmental Science, OCE 1001 Fundamentals of Oceanography, GLY 1010 Physical Geology, BSC 1005 General Biology OR, BSC 2011 Biology for Science Majors, STA 2023 Statistics, EOC X631 Marine Pollution, OCB X631 Estuarine and Coastal Ecology, GLY X751 Remote Sensing OR, GIS X043 Geographic Information Processing and Systems, GLY X820 Principles of Hydrology OR, OCCX060 Environmental Science Modeling, MET X300 Atmospheric Dynamics OR MET X103 Climate Change Science FSU PC Course of Study leading to a minor: MET1010 Introduction to the Atmosphere, OCE4008 Principles of Oceanography, EOC4631 Marine Pollution, OCB 4631 Estuarine and Coastal Ecology, GEO4357 Environmental Conflict and Economic Development</p>

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<b>Project location description</b>	Efforts will be centered at Gulf Coast State College and Florida State University Panama City. Field trips into various areas will be part of the course of study, but the college campuses will be the main location of all activities.
<b>1. Restore nat res</b>	
<b>2. Mitigate</b>	
<b>3. Implement plan</b>	
<b>4. Workforce/Jobs</b>	We live in an environmentally sensitive area. We have already seen the devastating impact that an environmental disaster can have on our economy and our way of life. The need for developing the expertise to assist in making sound environmental decisions and sound environmental policy is clear, and with a 15% growth rate in this career field, the jobs will come. The question is will we build those in our own workforce to fill these jobs and to add expertise in this area locally, or will we import because we have not grown our own? Will we touch future professionals at a young age and make them mindful of their responsibility for the health and welfare of our environment? The "grow our own" option seems logical and sound. Creating a pipeline of future stewards of our environment seems beyond question!
<b>5. Improve state park</b>	
<b>6. Infrastructure</b>	
<b>7. Flood protect</b>	
<b>8. Planning</b>	As our area grows and as developers work toward maximizing the profit margin of their developments, there must be some expertise to advise them on not only the DEP requirements, but also on how to design their projects so that the impact on the environment is minimized. By providing local professionals either with the certification which makes them more able to advise based on scientific principles or degreed personnel with this are of expertise, those developing properties will have access to this expertise which can extend their project plans to include ways to develop with the least impact on the environment and which preserve those areas crucial to a healthy environment.
<b>9. Promote tourism</b>	
<b>10. Promote seafood</b>	
<b>1.1 Diversify</b>	
<b>1.2 Infrastruc</b>	
<b>1.3 Airport</b>	
<b>1.4 Job train</b>	
<b>1.5 Workforce dev</b>	
<b>1.6 Facil tourism/econ dev</b>	
<b>1.7 Rec, transport, wage</b>	
<b>1.8 Protect nat res</b>	
<b>1.9 Promote fishing</b>	
<b>1.10 Commun resil</b>	
<b>2.1 Protect SAB</b>	
<b>2.2 Improv wtr qual</b>	
<b>2.3 Protect seagrass</b>	
<b>2.4 Wildl hab</b>	

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<b>2.5 Acq lands</b>	
<b>2.6 Preserve dunes, shore</b>	
<b>2.7 Protected spp</b>	
<b>2.8 Water data</b>	
<b>3.1 Deer Pt Lk wtr qual</b>	
<b>3.2 Stabil roads</b>	
<b>3.3 Sewer AWT</b>	
<b>3.4 Septic to central</b>	
<b>3.5 Stormwtr</b>	
<b>3.6 LID</b>	<p>This area must build the expertise to provide guidance to builders and developers as the density of our area inevitably increases. Creating the professionals with this expertise is the commitment of FSU Panama City and Gulf Coast State College. Taking trained professionals and building their expertise in Environmental Science and Policy allows more influence on those who come into the area to profit from our natural resources. Assisting in developing policy that serves to promote low impact development and that frames our local environmental priorities further gives a firm foundation that provides incentive for low impact development while providing expertise to guide that development.</p>
<b>3.7 Coast resil</b>	
<b>3.8 Support port</b>	

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<p><b>Budget justification</b></p>	<p>This project is straightforward: Budget will supply the academic expertise to teach the following courses annually for five years.</p> <p>Gulf Coast State College            EVR 1001 Introduction to Environmental Science            OCE 1001 Fundamentals of Oceanography            GLY 1010 Physical Geology            BSC 1005 General Biology OR            BSC 2011 Biology for Science Majors            STA 2023 Statistics            EOC X631 Marine Pollution            OCB X631 Estuarine and Coastal Ecology            GLY X751 Remote Sensing OR            GIS X043 Geographic Information Processing and Systems            GLY X820 Principles of Hydrology OR            OCCX060 Environmental Science Modeling            MET X300 Atmospheric Dynamics OR            MET X103 Climate Change Science            Florida State University Panama City            MET1010 Introduction to the Atmosphere            OCE4008 Principles of Oceanography            EOC4631 Marine Pollution            OCB 4631 Estuarine and Coastal Ecology            GEO4357 Environmental Conflict and Economic Development</p>
<p><b>Ongoing costs</b></p>	<p>After five years the certificate program at GCSC and the minor at FSUPC in Environmental Science and Policy will be established with student tuition providing the support and with Education and General funds supplied by Florida State University contributing to a program that will have developed a five-year track record of success.</p>
<p><b>Objective and measures</b></p>	<p>The overall objective of the project is to create a cadre of locals with expertise in Environmental Science and Policy. Metrics for measuring success include:            * an annual increase in the number of individuals seeking either a certificate in Environmental Science and Policy or a University Minor in it            * rate of employment of these individuals within Bay County</p>
<p><b>Nat Res Proj</b></p>	
<p><b>Best Avail Science</b></p>	
<p><b>Env issues</b></p>	<p>None</p>
<p><b>Econ Dev proj?</b></p>	
<p><b>Econ Dev description</b></p>	
<p><b>Job Creation?</b></p>	

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<p><b>Describe how jobs created</b></p>	<p>This project is not designed to create jobs but rather to retool our local workforce with the knowledge that guides future development projects and to assist in meeting future environmental challenges. We know that with the development that will inevitably arrive in Bay County that environmental challenges will come with that development. Informed decisions surrounding that development and those challenges will be crucial in shaping Bay County's future. Growing our own experts to provide input and guidance that shapes our future seems reasonable and desirable.</p>
<p><b>No. jobs created</b></p>	
<p><b>No. jobs created Yr 1</b></p>	
<p><b>No. jobs created Yr 2</b></p>	
<p><b>No. jobs created Yr 3</b></p>	
<p><b>Avg wage</b></p>	
<p><b>Total proj cost</b></p>	
<p><b>Complement. proj descr.</b></p>	
<p><b>Proj readiness descr</b></p>	<p>available. Once funds are available, the normal academic year will determine start time for courses since academic time is determined by semesters (Fall, Spring and Summer sessions)</p> <p>Gulf Coast State College  EVR 1001 Introduction to Environmental Science  OCE 1001 Fundamentals of Oceanography  GLY 1010 Physical Geology  BSC 1005 General Biology OR  BSC 2011 Biology for Science Majors  STA 2023 Statistics  EOC X631 Marine Pollution  OCB X631 Estuarine and Coastal Ecology  GLY X751 Remote Sensing OR  GIS X043 Geographic Information Processing and Systems  GLY X820 Principles of Hydrology OR  OCCX060 Environmental Science Modeling  MET X300 Atmospheric Dynamics OR  MET X103 Climate Change Science</p> <p>Florida State University Panama City  MET1010 Introduction to the Atmosphere  OCE4008 Principles of Oceanography  EOC4631 Marine Pollution  OCB 4631 Estuarine and Coastal Ecology  GEO4357 Environmental Conflict and Economic Development</p>
<p><b>Permits required?</b></p>	
<p><b>Permits status</b></p>	
<p><b>Land acq?</b></p>	
<p><b>Acquire fee simple?</b></p>	
<p><b>Acquire easement?</b></p>	

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<b>Fee and easement descri</b>	
<b>Terms of easement</b>	
<b>Entity to hold title</b>	
<b>Easement acres</b>	
<b>Fee simple acres</b>	
<b>Appraisal avail?</b>	
<b>Appraised value</b>	
<b>Title opinon avail?</b>	
<b>Material risks</b>	None
<b>Likelihood of success</b>	Main purpose of this project is to increase the amount of local employees with expertise in Environmental Science and Policy. Gulf Coast State College will offer a complete 30 hour certificate in Environmental Science and Policy for each of five years, while Florida State University will offer a 15 hour University minor in Environmental Science and Policy for each of five years. Providing this type of focused academic opportunity to create new expertise or to retool expertise will result in the desired outcome of more experts making better decisions for Bay County's future.
<b>Contract out work?</b>	
<b>Contracting strategy</b>	
<b>Applic manage proj?</b>	Yes
<b>L 1. Proposed mgr</b>	Dr. Gary Bliss, Associate Dean, Florida State University Panama City
<b>L 2. Mgr agreed?</b>	Yes
<b>L 3.Mgr experience</b>	Dr. Bliss has extensive experience in both banking and business development. He has spent many years in the business/banking world, more recently shifting to FSU PC as the Business Department Chair, and he has taught business courses to many of our current community leaders. He now is responsible for both the academic and the financial success of FSU Panama City, so managing this project is simply an extension of what he does on a daily basis. There is no funding within this project for management as this project simply adds an additional academic dimension to both institutions. This kind of oversight and of obtaining properly credentialed instructors is part of his daily responsibilities. Dr. Bliss also works extremely closely with Dr. Bishop and Dr. Holdnak at Gulf Coast State College, so coordination and cooperation are well established.
<b>L 4. Post proj maint</b>	Five years of offering an Environmental Science and Policy certification through Gulf Coast State College as well as a Minor through Florida State University Panama City allows time enough for the public to understand the benefits of such learning, the impact that has on careers and employment options, and the need for such learning. The value of the certificate/minor increases with each cohort of learners who earn either and since the need for such expertise, according to the Bureau of Labor Statistics, increases by 15%, once this pipeline is established, the students will come and the program will be sustained.
<b>L 5. Mgmt approach</b>	Project management will come through FSU Panama City and funds will be dispersed and managed through the Office of Contracts and Grants.
<b>Outreach descr</b>	