

Appropriations Project Request - Fiscal Year 2017-18

For projects meeting the Definition of House Rule 5.14

1. Title of Project: Smart Water Solutions to Help Reduce the Impact of Flooding at FSU

2. Date of Submission: 02/07/2017

3. House Member Sponsor: Matt Caldwell

Members Copied:

4. DETAILS OF AMOUNT REQUESTED:

- a. Has funding been provided in a previous state budget for this activity? No
If answer to 4a is ?NO? skip 4b and 4c and proceed to 4d
- b. What is the most recent fiscal year the project was funded?
- c. Were the funds provided in the most recent fiscal year subsequently vetoed?
- d. Complete the following Project Request Worksheet to develop your request (Note that column E will be the total of Recurring funds requested and Column F will be the total Nonrecurring funds requested, the sum of which is the Total of the Funds you are requesting in column G):

FY:	Input Prior Year Appropriation for this project for FY 2016-17 <i>(If appropriated in 2016-17 enter the appropriated amount, even if vetoed.)</i>			Develop New Funds Request for FY 2017-18 <i>(Requests for additional RECURRING funds are prohibited. Any additional Nonrecurring funding requested to supplement recurring funds in the base will result in the base recurring amount being converted to Nonrecurring .)</i>		
	Column:	A	B	C	D	E
Funds Description:	Prior Year Recurring Funds	Prior Year Nonrecurring Funds	Total Funds Appropriated <i>(Recurring plus Nonrecurring: column A + column B)</i>	Recurring Base Budget <i>(Will equal non-vetoed amounts provided in Column A)</i>	Additional Nonrecurring Request	TOTAL Nonrecurring Request <i>(Will equal the amount from the Recurring base in Column D to be CONVERTED to Nonrecurring plus the Additional Nonrecurring Request in Column E. These funds will be appropriated non-recurring if funded in the House Budget or the Final Conference Report on the budget.)</i>
Input Amounts:					2,000,000	2,000,000

5. Are funds for this issue requested in a state agency?s Legislative Budget Request submitted for FY 2017-18? No

5a. If yes, which state agency?

5b. If no, which is the most appropriate state agency to place an appropriation for the issue being requested? For example, if the requested issue pertains to services provided to inmates at correctional facilities, the Department of Corrections would be the most appropriate state agency. Board of Governors

6. Requester:

- a. Name: Dr. Peter Ray
- b. Organization: Florida State University
- c. Email: pray@fsu.edu
- d. Phone #: (850)544-5788

7. Contact for questions about specific technical or financial details about the project (Please retype if same as Requester):

- a. Name: Dr. Peter Ray
- b. Organization: Florida State University
- c. Email: pray@fsu.edu
- d. Phone #: (850)544-5788

8. If there is a registered lobbyist, fill out the lobbyist information below.

- a. Name: Christopher Coker
- b. Firm: Coker Consulting, llc
- c. Email: chris@cokerconsultingfl.com
- d. Phone #: (850)570-5432

9. Organization or Name of Entity Receiving Funds(Please retype if same as Requestor or Contact):

- a. Name: Florida State University
- b. County (County where funds are to be expended): Palm Beach
- c. Service Area (Counties being served by the service(s) provided with funding): Palm Beach

10. What type of organization is the entity that will receive the funds? (Select one)

- For Profit
- Non Profit 501(c) (3)
- Non Profit 501(c) (4)
- Local Government

- University or College
- Other (Please describe)

11. What is the specific purpose or goal that will be achieved by the funds being requested?

A more efficient and cost-effective method to provide critical rainfall and water level information to local and state officials to help reduce the impact of localized flooding, and to protect citizens and property with innovations that enhance the emergency management system without the high cost of in-situ monitoring networks.

12. Provide specific details on how funds will be spent. (Select all that apply)

Spending Category	Description	Nonrecurring (Should equal 4d, Col. F) Enter ?0? if request is zero for the category
Administrative Costs:		
<input checked="" type="checkbox"/> a. Executive Director/Project Head Salary and Benefits	Will manage the direction of the program and be responsible for producing results in line with the purpose and goals of the program.	150,000
<input type="checkbox"/> b. Other Salary and Benefits		
<input type="checkbox"/> c. Expense/Equipment/Travel/Supplies/Other		
<input type="checkbox"/> d. Consultants/Contracted Services/Study		
Operational Costs:		
<input checked="" type="checkbox"/> e. Salaries and Benefits	Employment under this description includes university researchers and graduate students who will be responsible for radar reflectivity translation to localized rainfall, saturation and duration.	175,000

<input checked="" type="checkbox"/> f. Expenses/Equipment/Travel/Supplies/Other	The funds will provide for data acquisition, calibration instrumentation, research equipment and travel to validate algorithms, modeling and preliminary results.	575,000
<input checked="" type="checkbox"/> g. Consultants/Contracted Services/Study	Contractor will enhance previously-developed modeling software and use it, along with radar reflectivity, GIS and land use information to create a smart water balancing decision support system.	1,100,000
Fixed Capital Construction/Major Renovation:		
<input type="checkbox"/> h. Construction/Renovation/Land/Planning Engineering		
TOTAL		2,000,000

13. For the Fixed Capital Costs requested with this issue, what type of ownership will the facility be under when complete? (In Question 12, if ?h. Fixed Capital Outlay? was not selected, question 13 is not applicable)

N/A

14. Is the project request an information technology project?

No

15. Is there any documented show of support for the requested project in the community including public hearings, letters of support, major organizational backing, or other expressions of support?

No

16. Has the need for the funds been documented by a study, completed by an independent 3rd party, for the area to be served?

No

17. Will the requested funds be used directly for services to citizens?

No

18. What benefits or outcomes will be realized by the expenditure of funds requested? (Select all that applies)

Benefit or Outcome	Provide a specific measure of the benefit or outcome	Describe the method for measuring level of benefit
<input type="checkbox"/> Improve physical health		
<input type="checkbox"/> Improve mental health		
<input type="checkbox"/> Enrich cultural experience		
<input type="checkbox"/> Improve agricultural production/promotion/education		
<input checked="" type="checkbox"/> Improve quality of education	Students working on project will gain valuable experience in solving "real world" problems. They will learn new technical and communication skills which are critical in the work place.	Quality of research they help in producing.
<input type="checkbox"/> Enhance/preserve/improve environmental or fish and wildlife quality		
<input checked="" type="checkbox"/> Protect the general public from harm (environmental, criminal, etc.)	Flood prevention through providing local personnel with affordable detection of heavy rainfall events and water levels so they can lower canals without the need for a multitude of expensive in-situ devices.	Through the pilot project with a municipality or drainage district and comparison of sensor and software measurements and predictions.
<input type="checkbox"/> Improve transportation conditions		
<input type="checkbox"/> Increase or improve economic activity		
<input type="checkbox"/> Increase tourism		
<input type="checkbox"/> Create specific immediate job opportunities		
<input type="checkbox"/> Enhance specific individual's economic self sufficiency		

<input type="checkbox"/> Reduce recidivism		
<input type="checkbox"/> Reduce substance abuse		
<input type="checkbox"/> Divert from Criminal/Juvenile justice system		
<input type="checkbox"/> Improve wastewater management		
<input checked="" type="checkbox"/> Improve stormwater management	Aid in keeping canals in the optimal state to maximize treatment and volume, protect infrastructure and improve water quality.	Measuring the water levels and quality in canals and anticipating future water loading.
<input checked="" type="checkbox"/> Improve groundwater quality	Reduce the probability of salt water intrusion which impacts plant and animal life.	Standard and routine groundwater sampling.
<input type="checkbox"/> Improve drinking water quality		
<input checked="" type="checkbox"/> Improve surface water quality	By working in conjunction with municipality or drainage district management to optimize the timing of water release from canals so natural processes can more fully digest nutrients and protect surface water quality.	Water sample collection and analysis with and without the decision support system.
<input type="checkbox"/> Other (Please describe):		

19. Provide the total cost of the project for FY 2017-18 from all sources of funding (Enter ?0? if amount is zero):

Type of Funding	Amount	Percent of Total (Automatically Calculates)	Are the other sources of funds guaranteed in writing?
1. Amount Requested from the State in this Appropriations Project Request:	2,000,000	100.0%	N/A

2. Federal:	0	0.0%	No
3. State: (Excluding the requested Total Amount in #4d, Column F)	0	0.0%	No
4. Local:	0	0.0%	No
5. Other:	0	0.0%	No
TOTAL	2,000,000	100%	

20. Is this a multi-year project requiring funding from the state for more than one year?

No