

# Appropriations Project Request - Fiscal Year 2018-19

## For projects meeting the Definition of House Rule 5.14

1. Title of Project: Florida International University Miami Beach Coastal Flooding Hazard Research Project
2. Date of Submission: 11/14/2017
3. House Member Sponsor: Ray Rodrigues  
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, Col. E***
- 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:

FY:	Input Prior Year Appropriation for this project for FY 2017-18 <i>(If appropriated in 2017-18 enter the appropriated amount, even if vetoed.)</i>			Develop New Funds Request for FY 2018-19 <i>(Requests for additional RECURRING funds are prohibited.)</i>		
Column:	A	B	C	D	E	F
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>	<b>Additional Nonrecurring Request</b>	<b>TOTAL Nonrecurring plus Recurring Base Funds</b>  <i>(Will equal the amount from the Recurring base in Column D plus the Additional Nonrecurring Request in Column E.)</i>
Input Amounts:					327,227	327,227

5. Are funds for this issue requested in a state agency's Legislative Budget Request submitted for FY 2018-19? 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? Department of Financial Services
  - 5c. Has the appropriate state agency for administering the funding, if the request were appropriated, been contacted? No
  - 5d. Describe penalties for failing to meet deliverables or performance measures which the agency should provide in its contract to administer the funding if appropriated.  
Return of funds to State if promised work is not delivered.

6. Requester:

- a. Name: Dr. Kenneth Furton
- b. Organization: Florida International University
- c. Email: furtonk@fiu.edu
- d. Phone #: (305)348-2151

7. Contact for questions about specific technical or financial details about the project:

- a. Name: Christopher Cantens
- b. Organization: Florida International University
- c. Email: ccantens@fiu.edu
- d. Phone #: (305)348-3505

8. Is there a registered lobbyist working to secure funding for this project?

- a. Name: Christopher Cantens
- b. Firm: Florida International University
- c. Email: ccantens@fiu.edu
- d. Phone #: (305)348-3505

9. Organization or Name of entity receiving funds:

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

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?

Continuous GPS (cGPS) monitoring of land subsidence in several selected points in Miami Beach. Currently, there are six cGPS stations in Florida. We propose to install three additional cGPS stations during the first year of the project and collect sufficient data, in order to evaluate the rate of land subsidence in Miami Beach. InSAR (satellite) monitoring of land subsidence ? this research component relies on freely available InSAR data, which is available by the European Space Agency (ESA).

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

Spending Category	Description	Nonrecurring (Should equal 4d, Col. E) Enter ?0? if request is zero for the category
Administrative Costs:		
<input checked="" type="checkbox"/> a. Executive Director/Project Head Salary and Benefits	Dr. Shimon Wdowinski who specializes in the study of geodetic techniques including GPS and InSAR (satellite) approaches for studying very precise movement of the Earth?s surface. This approach is used to understand natural hazards including land subsidence, sinkholes, and other environmental phenomena. He will direct this project measuring the changes in land elevation and deployment of the systems. This request is for one month summer salary for each year (4 yrs).	48,806
<input checked="" type="checkbox"/> b. Other Salary and Benefits	This amount is calculated as based on the fringe rates for faculty and graduate students (Research Assistants). The fringe rate for fulltime faculty is 33.22% and graduate research assistant is 5.82%.	21,976

<input checked="" type="checkbox"/> c. Expense/Equipment/Travel/Supplies/Other	(4) cGPS Units and indirect costs	93,445
<input checked="" type="checkbox"/> d. Consultants/Contracted Services/Study	Contracted monumentation of (4) cGPS stations	56,000
Operational Costs:		
<input checked="" type="checkbox"/> e. Salaries and Benefits	Graduate Student will help Dr. Wdowinski collect and work on the data collected during the 4-year study. Additionally, this trained student will contribute to her/his field with this new and important training in geodetic techniques, which is important for the evaluating potential flooding hazards in coastal systems. This support is only requested for the annual stipend for 4 years.	99,000
<input checked="" type="checkbox"/> f. Expenses/Equipment/Travel/Supplies/Other	Operation and maintenance of (4) GPS units	8,000
<input type="checkbox"/> g. Consultants/Contracted Services/Study		
Fixed Capital Construction/Major Renovation:		
<input type="checkbox"/> h. Construction/Renovation/Land/Planning Engineering		
<b>TOTAL</b>		<b>327,227</b>

13. For the Fixed Capital Costs requested with this issue (In Question 12, category ?h. Fixed Capital Outlay? was selected), what type of ownership will the facility be under when complete? (Select one correct option)

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?

Yes

17a. What are the activities and services that will be provided to meet the purpose of the funds?

Florida's coastlines are vulnerable to coastal flooding caused by storms and development.

17b. Describe the direct services to be provided to the citizens by the funding requested.

This data will evaluate the potential of coastal flooding by establishing a base-line of relative changes in surface elevation over the period of study

17c. Describe the target population to be served (i.e., "the majority of the funds requested will serve these target populations or groups.").

Select all that apply to the target population:

- Elderly persons
- Persons with poor mental health
- Persons with poor physical health
- Jobless persons
- Economically disadvantaged persons
- At-risk youth
- Homeless
- Developmentally disabled
- Physically disabled
- Drug users (in health services)
- Preschool students
- Grade school students
- High school students
- University/college students
- Currently or formerly incarcerated persons
- Drug offenders (in criminal Justice)

- Victims of crime
- General (The majority of the funds will benefit no specific group)
- Other (Please describe): Any population affected by coastal flooding

17d. How many in the target population are expected to be served?

- < 25
- 25-50
- 51-100
- 101-200
- 201-400
- 401-800
- >800

18. What benefits or outcomes will be realized by the expenditure of funds requested? (Select each Benefit/Outcome 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 type="checkbox"/> Improve quality of education		
<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.)	Does development cause changes in land surface and what is the rate of the change in land surface?	Did the data show rates that affect coastal development or not? What is the actual rate of land surface subsidence (if it is measured) and does this change affect coastal flooding potential (and over what time-frame).

<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 type="checkbox"/> Improve stormwater management		
<input type="checkbox"/> Improve groundwater quality		
<input type="checkbox"/> Improve drinking water quality		
<input type="checkbox"/> Improve surface water quality		
<input type="checkbox"/> Other (Please describe):		

19. Provide the total cost of the project for FY 2018-19 from all sources of funding (Enter ?0? if amount is zero):

Type of Funding	Amount	Percent of Total	Are the other sources of funds guaranteed in writing?
1. Amount Requested from the State in this Appropriations Project Request:	327,227	100.0%	N/A
2. Federal:	0	0.0%	No
3. State: (Excluding the requested Total Amount in #4d,	0	0.0%	No

Column F)			
4. Local:	0	0.0%	No
5. Other:	0	0.0%	No
TOTAL	327,227	100%	

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

No