



The Florida Senate

Local Funding Initiative Request

Fiscal Year 2020-2021

LFIR # 2289

1. **Project Title** UF/IFAS Demonstration of Reducing Residential Water Quality Impacts2. **Senate Sponsor** Gayle Harrell3. **Date of Request** 01/06/20204. **Project/Program Description**

This project will determine whether specific soil amendments and reduced irrigation will reduce water quality impacts. This research will include efforts to mitigate water quantity and quality impacts from residential landscapes. Landscape quality will also be assessed to determine customer acceptance. The project consists of identifying and amending soils in residential landscapes over a one-year period. This real-world demonstration project will determine the optimal amendment rate for a broader implementation state-wide. Soil amendments can come from a variety of sources, and may increase soil health, reduce irrigation needs and provide organic sources of nutrients for plants.

5. **State Agency to receive requested funds** Board of GovernorsState Agency contacted? ☒ Yes ☐ No6. **Amount of the Nonrecurring Request for Fiscal Year 2020-2021**

| Type of Funding | Amount |
|------------------------------------|---------|
| Operations | 920,000 |
| Fixed Capital Outlay | 000 |
| Total State Funds Requested | 920,000 |

7. **Total Project Cost for Fiscal Year 2020-2021 (including matching funds available for this project)**

| Type of Funding | Amount | Percentage |
|------------------------------------------------------|---------|------------|
| Total State Funds Requested (from question #6) | 920000 | 100.0 % |
| Matching Funds | | |
| Federal | 00 | 0 % |
| State (excluding the amount of this request) | 00 | 0 % |
| Local | 00 | 0 % |
| Other | 00 | 0 % |
| Total Project Costs for Fiscal Year 2020-2021 | 920,000 | 100 % |

8. **Has this project previously received state funding?** ☐ Yes ☒ No

If yes, provide the most recent instance:

| Fiscal Year (yyyy-yy) | Amount | | Specific Appropriation # | Vetoed |
|--------------------------|-----------|--------------|-----------------------------|--------|
| | Recurring | Nonrecurring | | |
| | | | | |

9. **Is future-year funding likely to be requested?** ☐ Yes ☒ No

If yes, indicate nonrecurring amount per year.



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10. Details on how the requested state funds will be expended

| Spending Category | Description | Amount |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------|
| Administrative Costs: | | |
| Executive Director/Project Head Salary and Benefits | | |
| Other Salary and Benefits | | |
| Expense/Equipment/Travel/Supplies/Other | | |
| Consultants/Contracted Services/Study | | |
| Operational Costs: Other | | |
| Salary and Benefits | Graduate Students and technicians | 180,000 |
| Expense/Equipment/Travel/Supplies/Other | Amendment applications for \$400,000; travel for \$15,000; field supplies for \$25,000 and water quality analysis for \$300,000. | 740,000 |
| Consultants/Contracted Services/Study | | |
| Fixed Capital Construction/Major Renovation: | | |
| Construction/Renovation/Land/Planning Engineering | | |
| Total State Funds Requested (must equal total from question #6) | | 920,000 |



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11. Program Performance

- a. What specific purpose or goal will be achieved by the funds requested?

The purpose of this project is to scientifically demonstrate a reduction of impacts from the urban sector on Florida's environment through a variety of activities on residential yards. Researchers will implement and demonstrate the use of soil amendments and other scientifically-proven methods for use of irrigation to residential yards, including compost and other materials.

- b. What activities and services will be provided to meet the intended purpose of these funds?

The project consists of identifying and amending soils in 200 diverse residential landscapes over a one-year period. This real-world demonstration project will determine the optimal amendment rate for a broader implementation state-wide.

- c. What direct services will be provided to citizens by the appropriation project?

This real world demonstration project will determine optimal amendment rate to balance landscape quality with water savings and water quality improvement. Irrigation water use will be measured to determine effect of amendments at reducing irrigation. In addition, landscape quality will be assessed to determine customer acceptance. Finally, initial water quality impact will be assessed to determine if amendments may reduce water quality impacts from residential neighborhoods.

- d. Who is the target population served by this project? How many individuals are expected to be served?

The immediate target population is the 200 landscapes to receive amendment material; however, the results apply to all landscapes statewide. Currently there are more than 5 million single family home parcels in the state encompassing nearly 2.3 million acres. In addition there are more than 1.3 million parcels available for development in the future totaling nearly 1.2 million acres. This pilot project will be a proof of concept to apply across the state. In addition, these numbers do not include commercial acreage (e.g. restaurants, business, etc.).

- e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?

This project is expected to show that irrigation of landscapes can be reduced while maintaining good landscape plant quality. Preliminary data suggest that landscape irrigation might be reduced as much as 30%. In addition, reduction of fertilizer needed will be measured.

- f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for in the contract?

Return of the portion of any funds for which performance standards are not met or deliverables are not achieved.



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12. **The owners of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owners of the facility and the entity.**

Not applicable.

13. **Requestor Contact Information**

- a. First Name Last Name
- b. Organization
- c. E-mail Address
- d. Phone Number Ext.

14. **Recipient Contact Information**

- a. Organization
- b. Municipality and County
- c. Organization Type
- ☐ For-profit Entity
 - ☐ Non-Profit 501(c) (3)
 - ☐ Non-Profit 501(c) (4)
 - ☐ Local Entity
 - ☒ University or College
 - ☐ Other (please specify)
- d. First Name Last Name
- e. E-mail Address
- f. Phone Number

15. **Lobbyist Contact Information**

- a. Name
- b. Firm Name
- c. E-mail Address
- d. Phone Number Ext.