Mission
The research mission of the University of Florida Institute of Food and Agricultural Sciences (UF/IFAS), conducted under the auspices of the Florida Agricultural Experiment Station (FAES), is to discover new scientific knowledge, encourage innovative study, and create applications based on sound science that address challenges facing agriculture, natural resources, and interrelated human systems in Florida, our country, and the world.

History
FAES was founded in 1887 at Florida Agricultural College in Lake City, the state’s original land-grant institution. When UF officially began operations in 1906, FAES was relocated to Gainesville. For much of the 20th century, FAES was headquartered on the UF main campus in Newell Hall, named for former FAES director Wilmon Newell, who served from 1921-1943.

The first off-campus FAES facility was the Citrus Research and Education Center (REC) in Lake Alfred, established in 1917 to aid the state’s citrus growers. It was followed by the Everglades REC in Belle Glade, North Florida REC in Quincy, and the Tropical REC in Homestead, all of which were established in the 1920s. Additional facilities opened in the decades that followed, increasing the statewide presence of FAES.

Funding
According to the most recent National Science Foundation figures, since fiscal year 2001, UF has ranked first or second among U.S. universities in total research expenditures in agricultural sciences and natural resources and conservation.¹

Financial support for UF/IFAS research activities comes from a variety of sources, including federal contracts and grants; state programs and appropriations; check-off programs sponsored by producers; contracts and grants from non-profit organizations and private companies; donations; and revenues from the licensing of crop cultivars, products, and technologies developed by UF/IFAS personnel.

Faculty
UF/IFAS employs 558 faculty members with research appointments, many of whom are award-winning, internationally recognized experts who publish papers in leading peer-reviewed journals and are inducted into prestigious organizations such as the National Academy of Sciences and as fellows in the American Association for the Advancement of Science.

Research
At UF/IFAS, research scientists work diligently to discover solutions to some of the most vexing problems in Florida and the world. Our research spans three comprehensive areas: agriculture, natural resources, and human-systems research.

Our researchers play leading roles in cross-disciplinary, campus-wide research initiatives such as:
- Biodiversity Institute
- Emerging Pathogens Institute
- Florida Climate Institute
- One Health
- UF Genetics Institute
- UF Informatics Institute
- UF Water Institute

Our researchers are actively involved in UF/IFAS-based centers of excellence such as:
- Center for Aquatic and Invasive Plants
- Center for Landscape Conservation and Ecology
- Center for Nutritional Sciences
- Center for Public Issues Education in Agriculture and Natural Resources
- Center for Remote Sensing
- Center for Stress Resilient Agriculture
- Institute for Sustainable Food Systems
- Plant Innovation Center

Highlights
FAES is committed to continually providing strategic research funding to improve its research programs to meet stakeholder needs.

The following inserts highlight some key areas within the 14 departments, one school and 12 Research and Education Centers. The inserts are alphabetized and include a breakdown of information such as:
- Current Research Program Efforts
- Sponsored Program Awards
- Refereed Journal Publications
- Faculty Distributions

**FACULTY**

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-campus</td>
<td>474</td>
</tr>
<tr>
<td>Off-campus</td>
<td>169</td>
</tr>
<tr>
<td>With research appointments</td>
<td>558</td>
</tr>
<tr>
<td>Departments</td>
<td>14</td>
</tr>
<tr>
<td>Research and Education Centers</td>
<td>12</td>
</tr>
<tr>
<td>NAS Members</td>
<td>6</td>
</tr>
<tr>
<td>AAAS Fellows</td>
<td>13</td>
</tr>
<tr>
<td>U.S. Utility Patents</td>
<td>8</td>
</tr>
<tr>
<td>U.S. Plant Patents</td>
<td>8</td>
</tr>
<tr>
<td>Foreign Utility Patents</td>
<td>2</td>
</tr>
<tr>
<td>Refereed Journal Publications</td>
<td>1,611</td>
</tr>
<tr>
<td>Plant Variety Protection Certificates</td>
<td>8</td>
</tr>
</tbody>
</table>

**SPONSORS (FY 2017-18)**

Awards Totaling $166.2 MILLION

- Federal Agencies: 65.3% - $108.6 million
- State Agencies: 10.7% - $17.7 million
- Local & Regional Government: 4.3% - $7.2 million
- Corporations & Companies: 4.3% - $7.2 million
- Foundations & Non-Profits: 13.2% - $22.0 million
- All Other Sources: 2.2% - $3.5 million

**FUNDING**

UF/IFAS Agricultural Sciences Research Expenditures

$154.1 MILLION in FY 2016

**RESEARCH PROGRAMS**
Expand our global leadership in transformational basic and applied research by developing “seed” programs to support strategic research initiatives, increasing awareness of funding opportunities, and funding targeted investments in equipment and infrastructure.

**RESEARCH CULTURE**
Enrich our research culture to strengthen innovation and discovery by encouraging the recruitment and retention of diverse, top-performing faculty and staff, developing and improving student research experiences, and promoting synergies between the land-grant missions.

**RESEARCH PEOPLE**
Build satisfaction and quality of life on the job for faculty and staff by facilitating professional development, fostering an inclusive and collegial environment, and recognizing distinction in disciplinary and interdisciplinary research.

*Excluding county faculty
**Currently active faculty funded by the state
***Developed in collaboration with faculty and unit leaders in 2016
Our department strives to compete more aggressively and effectively in hydrologic, environmental, and biosystems modeling; climate change and variability effects on biological systems and natural resources; nano-scale science; nanobiotechnology; biofuels; sustainable bioproducts; packaging and postharvest engineering; biosystems logistics; biosystems safety; and decision-support systems in agricultural and managed ecosystems.

### Current Research Program Efforts

- Water Resources & Hydrology
- Agroclimatology
- Remote Sensing & Precision Agriculture
- Big Data/Data Analytics
- Sustainable Food Systems
- Biotechnology
- Coupled Biological & Human Systems Modeling

### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>155</td>
</tr>
<tr>
<td>2017</td>
<td>120</td>
</tr>
<tr>
<td>2016</td>
<td>112</td>
</tr>
<tr>
<td>2015</td>
<td>110</td>
</tr>
<tr>
<td>2014</td>
<td>103</td>
</tr>
</tbody>
</table>

### Sponsored Program Awards (FY18)

- Federal Agencies: $3.0M
- Industry: $2.0M
- State & Regional Government: $1.0M
- Other Funding: $0

### Faculty Distribution (CY18)

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
Our faculty are using national research agendas vetted through associated professional societies, combined with the significant challenges faced by their stakeholders in Florida, to frame their research programs and enhance research collaboration. These collaborations impact the food, agriculture, natural resources, and human sciences sectors.

**Current Research Program Efforts**

- Agricultural Education
- Agricultural Communication
- Leadership Development
- Extension Education

**Refereed Journal Publications**

- 2018: 57
- 2017: 74
- 2016: 54
- 2015: 36
- 2014: 37

**Sponsored Program Awards [FY18]**

- Federal Agencies
- State & Regional Government

**Faculty Distribution [CY18]**

- Professors
- Associate Professors
- Assistant Professors
- Lecturers

By the Numbers
Our researchers focus on sustainable production and use of food, feed, fiber, energy, and recreational crops, as well as the design and evaluation of resilient agroecosystems. Initiatives aimed at improving the professional working skills of our students support our multi- and trans-disciplinary research on biotic and abiotic stresses and their effects on agroecosystems as well as training the next generation of scientists.

**Current Research Program Efforts**

- **Plant Breeding, Genetics & Genomics**
- **Weed Science & Invasive Species**
- **Plant Physiology, Nutrition & Management**

**Sponsored Program Awards (FY18)**

- Federal Agencies: $3.5M
- State & Regional Government: $2.5M
- Industry: $0
- Other Funding: $1.5M

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>84</td>
</tr>
<tr>
<td>2017</td>
<td>94</td>
</tr>
<tr>
<td>2016</td>
<td>72</td>
</tr>
<tr>
<td>2015</td>
<td>87</td>
</tr>
<tr>
<td>2014</td>
<td>58</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- **Professors**
- **Associate Professors**
- **Assistant Professors**
Our research is enhanced by our faculty’s capacity to use tools of functional genomics and proteomics, combined with unique models of animal performance as they relate to tropical and subtropical environments. We are becoming a center for development of livestock models for the investigation of human and animal health and performance.
The past century has seen the citrus industry grow from the fresh fruit packinghouses of early citrus pioneers to today’s billion-dollar industry for processed juice and fresh fruit. Our scientists and engineers have and continue to make key scientific discoveries and technological advancements that are pivotal to the industry’s development.

**Current Research Program Efforts**

- Economics
- Horticulture
- Plant Pathology/Microbiology
- Food Science
- Entomology/Nematology
- Soil & Water Sciences

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>100</td>
<td>108</td>
<td>90</td>
<td>76</td>
<td>109</td>
</tr>
</tbody>
</table>

**Sponsored Program Awards (FY18)**

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
Research in our department focuses on fundamental insect and nematode biology. Our research provides a foundation for sustainable approaches to mitigating losses in agricultural and urban settings that minimize negative impacts to the environment and human health. Our goal is to better understand these impacts and to develop management approaches that are sustainable and safe.

**Current Research Program Efforts**

- Pest Management
- Nematology
- Physiology, Biochemistry, Genetics & Toxicology
- Medical, Veterinary, and Urban Entomology
- Biological Control
- Behavior, Ecology, Evolution & Systematics

**Sponsored Program Awards (FY18)**

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>83</td>
</tr>
<tr>
<td>2017</td>
<td>90</td>
</tr>
<tr>
<td>2016</td>
<td>86</td>
</tr>
<tr>
<td>2015</td>
<td>63</td>
</tr>
<tr>
<td>2014</td>
<td>57</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
Core programs of our department focus on (1) how abiotic factors impact physiology, adaptation, survivability, human/sensory connections, and (2) environmental and economic sustainability of ornamental, edible, medicinal, and bioenergy crops produced across Florida, within the southeast region, and around the world.

Current Research Program Efforts

- Nursery Crop Production
- Landscape Management
- Water
- Breeding & Biotechnology
- Restoration & Conservation

By the Numbers

Professors: 24
Associate Professors: 24
Assistant Professors: 23
Non-Tenure Track Faculty: 22
Lecturers: 17

Sponsored Program Awards (FY18)

- Federal Agencies: $350K
- State & Regional Government: $250K
- Industry: $150K
- Other Funding: $50K

Refereed Journal Publications

- 2018: 17
- 2017: 24
- 2016: 23
- 2015: 24
- 2014: 22

Faculty Distribution (CY18)

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
Our scientists conduct research and extension programs in southern Florida that explore and promote profitable and sustainable agricultural systems. These systems aim to conserve and protect our soil, water, and natural resources, and contribute to an improved quality of life for Florida citizens.

**Current Research Program Efforts**

- Agronomy
- Wildlife Ecology & Conservation
- Soil & Water Sciences
- Entomology
- Plant Breeding
- Plant Pathology

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Year</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>30</td>
<td>37</td>
<td>31</td>
<td>34</td>
<td>30</td>
</tr>
</tbody>
</table>

**Sponsored Program Awards (FY18)**

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
Our research seeks to promote resilience; reduce negative behavioral, emotional, and health outcomes; and enhance the health and well-being of individuals, families, and communities. The specific focus is on identifying modifiable risk, protective, and promotive factors that inform the development, implementation, dissemination, and sustainability of interventions.

**Current Research Program Efforts**

- Program Development & Emerging Adulthood
- Youth Development
- Health & Wellbeing
- Human Services
- Couple & Family Relationship
- Inequity & Social Justice

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>46</td>
</tr>
<tr>
<td>2017</td>
<td>26</td>
</tr>
<tr>
<td>2016</td>
<td>39</td>
</tr>
<tr>
<td>2015</td>
<td>36</td>
</tr>
<tr>
<td>2014</td>
<td>16</td>
</tr>
</tbody>
</table>

**Sponsored Program Awards (FY18)**

- Federal Agencies: $15.0M
- State & Regional Government: $12.0M
- Industry: $9.0M
- Other Funding: $6.0M
- Industry: $3.0M

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
Our scientists address the biology, ecology and control of arthropod-borne disease vectors (i.e. mosquitoes). Florida, the United States and Latin America rely on our lab’s discoveries for novel surveillance methods, effective vector control, and advances in disease and vector ecology, genetics, molecular biology, landscape ecology and related fields.

### Current Research Program Efforts

- **Vector Biology**
- **Vector/Pathogen Surveillance**
- **Arbovirus/Vector Genetics**
- **Epidemiology**
- **Pest Management**

### Sponsored Program Awards (FY18)

- **Federal Agencies**
- **State & Regional Government**
- **Industry**

### By the Numbers

#### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>20</td>
<td>19</td>
<td>20</td>
<td>20</td>
<td>33</td>
</tr>
</tbody>
</table>

#### Faculty Distribution (CY18)

- **Professors**
- **Associate Professors**
- **Assistant Professors**
- **Non-Tenure Track Faculty**
Our researchers address current and emerging agricultural, food and natural resource economics issues and policies affecting the livelihoods and well-being of Florida's citizens and beyond. Faculty use the science of decision-making that entails balancing market versus non-market costs and benefits across a wide range of stakeholders.

### Current Research Program Efforts

- **Production & Farm Management**
- **Labor Economics**
- **Marketing & Consumer Behavior**
- **Natural Resource**
- **Policy & International Trade**
- **International Development**

### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>44</td>
</tr>
<tr>
<td>2017</td>
<td>41</td>
</tr>
<tr>
<td>2016</td>
<td>44</td>
</tr>
<tr>
<td>2015</td>
<td>54</td>
</tr>
<tr>
<td>2014</td>
<td>35</td>
</tr>
</tbody>
</table>

### Sponsored Program Awards (FY18)

- Federal Agencies: $1.2M
- State & Regional Government: $0.8M
- Industry: $0.4M
- Other Funding: $0

### Faculty Distribution (CY18)

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers

Sponsored Program Awards (FY18)
Our scientists study the physical, microbiological, and chemical makeup of food, and also the relationship between diet, health and disease. We help create best practices of care for improved patient health including establishing the folic acid requirement during pregnancy, a revolutionary discovery that helped prevent birth defects.

**Current Research Program Efforts**

- Pre- & Pro-biotics
- Food Processing
- Human Nutrition Studies
- Vitamin & Mineral Requirements
- Food Safety, Quality & Value

**Sponsored Program Awards (FY18)**

- Federal Agencies
- State & Regional Government
- Industry

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>51</td>
</tr>
<tr>
<td>2017</td>
<td>40</td>
</tr>
<tr>
<td>2016</td>
<td>50</td>
</tr>
<tr>
<td>2015</td>
<td>55</td>
</tr>
<tr>
<td>2014</td>
<td>39</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
Our scientists focus on forests and natural resources; fisheries and aquatic sciences; and geospatial sciences. Our research promotes efficient production, sustainable management, and informed conservation of natural resources and agricultural systems. Our plan is to further enhance interdisciplinary research to better understand, optimize, predict and communicate the whole-system effects of natural and human activities.

### Current Research Program Efforts

- Resource Management
- Ecosystem Health, Resilience & Conservation
- Economic Prosperity
- Technological Advancement

### Sponsored Program Awards [FY18]

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>166</td>
</tr>
<tr>
<td>2017</td>
<td>133</td>
</tr>
<tr>
<td>2016</td>
<td>129</td>
</tr>
<tr>
<td>2015</td>
<td>139</td>
</tr>
<tr>
<td>2014</td>
<td>121</td>
</tr>
</tbody>
</table>

### Faculty Distribution (CY18)

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
Our scientists develop sustainable management practices for tropical and subtropical landscape systems for reducing the impact of invasive animals and plants on natural and urbanized habitats. Our research helps better understand potential ramifications of increasing sea level, diminishing natural resources, and declining water quality.

### Current Research Program Efforts

- Aquatic & Urban Plant Science
- Geomatics
- Microbial & Landscape Ecology
- Wildlife Ecology & Conservation
- Structural/Horticultural Entomology/Nematology

### Sponsored Program Awards (FY18)

- Federal Agencies
- Industry
- State & Regional Government
- Other Funding

### By the Numbers

#### Refereed Journal Publications

- 2018: 80
- 2017: 70
- 2016: 50
- 2015: 60
- 2014: 65

#### Faculty Distribution (CY18)

- Professors
- Associate Professors
- Assistant Professors
Our scientists work diligently to maintain and enhance the quality of Florida’s natural resources and agriculture. Our researchers, who specialize in many different disciplines, work on a variety of ever-changing projects—from breeding new disease-tolerant fruit and vegetable varieties to developing new treatments to control weeds.

**Current Research Program Efforts**

- Soil & Water Sciences
- Entomology & Nematology
- Food & Economic Resources
- Horticulture
- Agricultural Education
- Plant Pathology
- Geomatics

**Sponsored Program Awards (FY18)**

- Federal Agencies
- Industry
- State & Regional Government
- Other Funding

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>66</td>
</tr>
<tr>
<td>2017</td>
<td>61</td>
</tr>
<tr>
<td>2016</td>
<td>71</td>
</tr>
<tr>
<td>2015</td>
<td>53</td>
</tr>
<tr>
<td>2014</td>
<td>36</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
High-value horticultural crops are a cornerstone of Florida's economy as well as a healthy diet. Our research develops practical solutions for Florida's specialty crop producers through integration of basic and applied research. Scientific findings dovetail with extension efforts, delivering relevant, up-to-date research to directly affect field practices.
Research at the Center addresses sustainable agriculture, natural resources, urban development and their interactions with the environment. Research programs include developing best management practices for citrus fruit production; soil and water quality; biological control of invasive plants and insects; and aquaculture.

**Current Research Program Efforts**

- Aquaculture
- Biological Control of Invasive Species
- Water Quality
- Postharvest Management
- Citrus

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>56</td>
<td>44</td>
<td>49</td>
<td>43</td>
<td>33</td>
</tr>
</tbody>
</table>

**Sponsored Program Awards (FY18)**

- Federal Agencies
- Industry
- State & Regional Government
- Other Funding

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
Our faculty have highly regarded expertise in molecular and cellular biology, community and ecosystem organization and interactions, and omics-level data analysis. They facilitate and support the formation of integrative, project-driven collaborations to harness the potential of living organisms, benefiting humanity in agriculture and medicine.

**Current Research Program Efforts**

- Host Microbe Interactions
- Genomics & Bioinformatics
- Microbial Genetics & Physiology
- Microbial Ecology
- Plant Biology & Plant-Microbe Interactions

**Sponsored Program Awards (FY18)**

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>98</td>
</tr>
<tr>
<td>2017</td>
<td>72</td>
</tr>
<tr>
<td>2016</td>
<td>92</td>
</tr>
<tr>
<td>2015</td>
<td>69</td>
</tr>
<tr>
<td>2014</td>
<td>85</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Lecturers
The research focus of our Center is “lifestyle horticulture.” This is profitable, yet environmentally responsible production and use of high-value horticulture plants and plant products to satisfy demand driven by consumer tastes, preferences, and wellness.

**Current Research Program Efforts**

- Nursery Production
- Foliage Plant Production
- Medicinal Plant Production
- Landscape Management
- Nursery Production

**Sponsored Program Awards (FY18)**

- Federal Agencies
- Industry
- State & Regional Government

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>36</td>
<td>44</td>
<td>28</td>
<td>39</td>
<td>28</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty

407-884-2034

mrec.ifas.ufl.edu

An Equal Opportunity Institution.
Our scientists, located in Quincy, Marianna, and Suwannee Valley, FL, use a team-based systems approach to focus on vegetable and melon production; integrated cattle/row crop enterprises; and forest resource management and harvest. These areas have major economic impacts in North and Northwest Florida.

**Current Research Program Efforts**

- Vegetable and Fruit Production
- Peanuts/Forage Genetics
- Forage Management & Beef Cattle Nutrition
- Cropping Systems
- Forestry & Wildlife Management

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>59</td>
</tr>
<tr>
<td>2017</td>
<td>60</td>
</tr>
<tr>
<td>2016</td>
<td>52</td>
</tr>
<tr>
<td>2015</td>
<td>72</td>
</tr>
<tr>
<td>2014</td>
<td>56</td>
</tr>
</tbody>
</table>

**Sponsored Program Awards (FY18)**

- Federal Agencies: $10M
- Industry: $8M
- State & Regional Government: $0
- Other Funding: $6M
- Industry: $4M
- Other Funding: $2M

**Faculty Distribution (CY18)**

- Professors
- Assistant Professors
- Associate Professors
- Non-Tenure Track Faculty
Plant diseases, new and old, are threatening economically important and signature crops of Florida. New faculty expertise and research advances place our department in a position to enhance the sustainability and diversity of Florida agriculture, and provide leadership in national and international plant disease management arenas.

**Current Research Program Efforts**

- Bacterial Genomics & Pathogenicity
- Microbial Ecology & Population Biology
- Virology & Plant Interactions
- Fungal & Oomycete Biology
- Disease Etiology & Management
- Plant Disease Resistance
- Impact Modeling & Epidemiology

**Sponsored Program Awards (FY18)**

- Federal Agencies: $3.0M
- State & Regional Government: $2.0M
- Industry: $1.0M
- Other Funding: $0

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>67</td>
</tr>
<tr>
<td>2017</td>
<td>56</td>
</tr>
<tr>
<td>2016</td>
<td>57</td>
</tr>
<tr>
<td>2015</td>
<td>83</td>
</tr>
<tr>
<td>2014</td>
<td>45</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
Our research responds to emerging challenges and opportunities facing grazinglands, among them increasing costs of fertilizers and fuel; loss of grazing land to urbanization and public acquisition; and the environmental impacts and ecological benefits of pasture- and rangeland-based animal production.

### Current Research Program Efforts

- Environmental Services of Grazinglands
- Forage & Weed Management
- Livestock & Forage Economics
- Beef Nutrition & Management
- Wildlife Ecology

### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>25</td>
<td>25</td>
<td>20</td>
<td>17</td>
<td>23</td>
</tr>
</tbody>
</table>

### Sponsored Program Awards (FY18)

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

### Faculty Distribution (CY18)

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
Our faculty address critical soil, water and environmental issues related to water quality; water conservation; soil quality; carbon sequestration; greenhouse gas emissions; emerging contaminants; waste management as related to environmental health; global change; and sustainable production of food, fiber, and fuel.

**Current Research Program Efforts**

- Landscape Analysis & Modeling
- Sustainable Nutrient Management
- Wetlands & Aquatic Systems
- Carbon Science/Ecosystem Services
- Remediation of Contaminated Soils, Waters, and Aquifers

**Sponsored Program Awards (FY18)**

- Federal Agencies: $1.2M
- State & Regional Government: $0.8M
- Industry: $0.4M
- Other Funding: $0

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>78</td>
</tr>
<tr>
<td>2017</td>
<td>83</td>
</tr>
<tr>
<td>2016</td>
<td>63</td>
</tr>
<tr>
<td>2015</td>
<td>88</td>
</tr>
<tr>
<td>2014</td>
<td>127</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
- Non-Tenure Track Faculty
- Lecturers
Our Center addresses agricultural and natural resource issues that arise from the complex interplay among agricultural, urban, and natural systems. The overarching goal of the center’s research programs is to sustain a profitable agriculture industry, vital environmental services and quality of life in southwest Florida.

Current Research Program Efforts

- Citrus Disease Management
- Vegetable Horticultural Management
- Water Management & Conservation
- Vegetable Disease Management
- Precision Agriculture
- Citrus Horticultural Management

Sponsored Program Awards (FY18)

- Federal Agencies
- State & Regional Government
- Industry
- Other Funding

Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Publications</td>
<td>32</td>
<td>23</td>
<td>31</td>
<td>16</td>
<td>39</td>
</tr>
</tbody>
</table>

Faculty Distribution (CY18)

- Professors
- Assistant Professors
- Non-Tenure Track Faculty
Our Center is uniquely located among diverse agricultural industries, federally protected natural areas (Everglades, Biscayne Bay, etc.), and major metropolitan areas in a tropical/subtropical climactic setting. Our researchers’ efforts focus on agricultural innovation, natural resource conservation, and climate and environmental stewardship.

### Current Research Program Efforts

- **Crop/Plant Production & Sustainability**
- **Pest & Disease Resistance**
- **Water & Soil Resources**
- **Climate Variability & Sea-Level Rise**
- **Plant Breeding & Biotechnology**

### Sponsored Program Awards (FY18)

- **Federal Agencies**
- **Industry**
- **Other Funding**

### By the Numbers

- **Funding Sources**
  - Federal Agencies: $1.5M
  - Industry: $1.2M
  - Other Funding: $0.9M
  - Plant Breeding & Biotechnology: $0.6M
  - Crop/Plant Production & Sustainability: $0.3M

### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>60</td>
</tr>
<tr>
<td>2017</td>
<td>68</td>
</tr>
<tr>
<td>2016</td>
<td>49</td>
</tr>
<tr>
<td>2015</td>
<td>59</td>
</tr>
<tr>
<td>2014</td>
<td>57</td>
</tr>
</tbody>
</table>

### Faculty Distribution (CY18)

- **Professors**
- **Associate Professors**
- **Non-Tenure Track Faculty**
- **Assistant Professors**

An Equal Opportunity Institution.
Our research focuses on traditional agricultural systems, specialty and biofuel crops, natural resource conservation and management, and managed landscape sustainability. Our Center has two locations: the Milton Academic Programs Center in Milton, FL and the Jay Research Facility in Jay, FL.

**Current Research Program Efforts**

- Ecological Restorations
- Cropping Systems
- Forestry
- Weed Science
- Watershed Science
- Entomology
- Turfgrass Science
- Ecological Restorations

**Sponsored Program Awards (FY18)**

- Federal Agencies: $1.2M
- State & Regional Government: $0.8M
- Industry: $0
- Other Funding: $0.4M

**Refereed Journal Publications**

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>20</td>
</tr>
<tr>
<td>2017</td>
<td>21</td>
</tr>
<tr>
<td>2016</td>
<td>18</td>
</tr>
<tr>
<td>2015</td>
<td>11</td>
</tr>
<tr>
<td>2014</td>
<td>16</td>
</tr>
</tbody>
</table>

**Faculty Distribution (CY18)**

- Professors
- Associate Professors
- Assistant Professors
Our researchers strive to conserve biodiversity, maintain ecosystem health, and promote the sustainable use of natural resources. Opportunities are presented by emerging issues such as climate change and sea level rise, water use and energy demands, land-use change, emerging zoonoses, pollutants, invasive species, and resource extraction policies.

### Current Research Program Efforts

- **Wetland Ecology & Management**
- **Human Dimensions**
- **Spatial Ecology**
- **Conservation Biology**
- **Wildlife Ecology & Management**

### Refereed Journal Publications

<table>
<thead>
<tr>
<th>Calendar Year</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>112</td>
</tr>
<tr>
<td>2017</td>
<td>100</td>
</tr>
<tr>
<td>2016</td>
<td>79</td>
</tr>
<tr>
<td>2015</td>
<td>60</td>
</tr>
<tr>
<td>2014</td>
<td>58</td>
</tr>
</tbody>
</table>

### Faculty Distribution (CY18)

- **Professors**
- **Associate Professors**
- **Assistant Professors**
- **Non-Tenure Track Faculty**

### Sponsored Program Awards (FY18)

- **Federal Agencies**
- **State & Regional Government**
- **Industry**
- **Other Funding (Non-Profit Organizations)**

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Agencies</td>
<td>$8.0M</td>
</tr>
<tr>
<td>State &amp; Regional Government</td>
<td>$6.0M</td>
</tr>
<tr>
<td>Industry</td>
<td>$4.0M</td>
</tr>
<tr>
<td>Other Funding (Non-Profit Organizations)</td>
<td>$0</td>
</tr>
</tbody>
</table>

An Equal Opportunity Institution.
**Gainesville Campus Departments**
- Agricultural and Biological Engineering
- Agricultural Education and Communication
- Agronomy
- Animal Sciences
- Entomology and Nematology
- Environmental Horticulture
- Family, Youth and Community Sciences
- Food and Resource Economics
- Food Science and Human Nutrition
- Horticultural Sciences
- Microbiology and Cell Science
- Plant Pathology
- School of Forest Resources and Conservation
- Soil and Water Sciences
- Wildlife Ecology and Conservation

**Off-Campus Research and Education Centers (REC)**
1. Citrus REC | LAKE ALFRED
2. Everglades REC | BELLE GLADE
3. Florida Medical Entomology Laboratory | VERO BEACH
4. Fort Lauderdale REC | FORT LAUDERDALE
5. Gulf Coast REC | BALM, PLANT CITY
6. Indian River REC | FORT PIERCE
7. Mid-Florida REC | APOPKA
8. North Florida REC | MARIANNA, QUINCY, SUWANNEE VALLEY
9. Range Cattle REC | ONA
10. Southwest Florida REC | IMMOKALEE
11. Tropical REC | HOMESTEAD
12. West Florida REC | JAY, MILTON

**Research and Demonstration Sites**
13. Hastings Agricultural Extension Center | HASTINGS
14. Nature Coast Biological Station (NCBS) | CEDAR KEY
15. Ordway-Swisher Biological Station (OSBS) | MELROSE
16. Plant Science Research and Education Unit (PSREU) | CITRA
17. Tropical Aquaculture Laboratory (TAL) | RUSKIN, APOLLO BEACH

An Equal Opportunity Institution. Florida Agricultural Experiment Station, Institute of Food and Agricultural Sciences, University of Florida, UF/IFAS Dean for Research, publishes this information to advance research programs and related activities. For more information contact the UF/IFAS Office of the Dean for Research, P.O. Box 110200, Gainesville, Florida 32611-0200, 352-392-1784.