

Clemson's Public Service Commitment 2012

FY2012-13 Budget Request

Clemson Public Service Activities (PSA) is part of a **national network** of 50 major land-grant universities—one in each state—that work in concert with the USDA National Institute of Food and Agriculture. Clemson PSA is the only state agency with state and federal mandates to conduct research, extension and regulatory programs that **support economic development in South Carolina's largest industry** – agriculture and forestry, or agribusiness – which contributes \$34 billion and 200,000 jobs to the state economy. Since 2008 state appropriations for Clemson Public Service Activities have been reduced by nearly 50%. Now we need to rebuild expertise to **address critical agribusiness issues** affecting the state's economy.

Recurring Budget

We are requesting restoration of a significant portion of the \$25.1 million cut since 2008 to invest in these critical areas.

Advanced Plant Technology \$3.025 million

To improve drought, insect and disease resistance; improve crop yields; and introduce new crops and crop-based products (Pee Dee Research and Education Center)

Watershed Management Technology \$1.725 million

To develop remote monitoring systems that provide real-time water quality and quantity data so water resource managers can make informed decisions to support economic development

Precision Agriculture \$1.34 million

To develop GPS/GIS technology that maximizes productivity and minimizes environmental impact by applying fertilizer, pesticide and irrigation water only in the locations and amounts needed

Pasture-Based Livestock Production \$865,000

To develop pasture management and forages to produce high quality beef cattle, and improve profitability for growers and nutritional quality for consumers

Energy Crop Production and Conversion \$1.220 million

To develop economically viable non-food energy crops (switchgrass, sorghum and canola), processing systems and efficient cellulose-to-ethanol conversion technologies to increase in-state energy production

Agribusiness / Agriculture Information Technology \$1.09 million

To grow current agricultural enterprises and encourage new enterprises through market-based feasibility studies, cost-benefit analyses and agricultural enterprise development programs

Capital Budget

We are requesting funding for three capital improvement projects:

Advanced Plant Technology Center \$7 million

(Pee Dee Research and Education Center, Florence)
To provide new laboratories and equipment for plant breeding, molecular genetics and new crop development, replacing 25-year-old facilities

Campus Farms Improvement \$13 million

To improve animal facilities so research, extension and teaching programs can mirror industry standards and successfully compete for grants, replacing facilities up to 30 years old

Bioethanol Pilot Plant \$12 million

To move biofuel energy research from laboratory to production level technology, incorporating flexible design to accommodate a variety of feedstocks and processing technologies

Clemson Public Service Activities (PSA) include:

Experiment Station

Develops relevant, research-based knowledge for agriculture, forestry and natural resources to enhance economic development

Extension Service

Transfers science-based information on agriculture, forestry and natural resources to commercial producers and land managers, and individuals

Livestock-Poultry Health

Serves as South Carolina's animal health authority, administers the state meat and poultry inspection program, and operates the state veterinary diagnostic center for livestock and companion animals

Regulatory Services

Regulates the safe and legal use of pesticides, the quality of fertilizer and lime, the certification of seed purity and germination, the prevention and control of plant pests, and the certification of greenhouse and nursery plants as pest-free

4-H

Prepares young people to become productive citizens through training in leadership, citizenship, and life skills through a learn-by-doing approach with a focus on agriculture and natural resources

Baruch Institute of Coastal Ecology and Forest Science

Conducts research and education programs on coastal issues such as the environmental impact of urban development and protecting natural resources

Institute of Applied Ecology

Conducts research and education programs on watershed management plans throughout the state and restores compromised environments