Army Corps of Engineers

Army Corps of Engineers - Dredging of Oregon Inlet, Manteo (Shallowbag) Bay - $16 million

Army Corps of Engineers – Wilmington District

69 Darlington Avenue

Wilmington, NC 28403

Oregon Inlet is a dynamic body of water flowing between the Northern Outer Banks and Hatteras Island off the North Carolina coast. It is the northernmost inlet in North Carolina and is important for the Outer Banks' recreational industries, including boating and fishing, and also to commercial interests. Oregon Inlet also acts as a "flushing" mechanism for the Albemarle, Currituck, Croatan, Roanoke, and Pamlico Sound systems, allowing the sounds to flush pollutants into the ocean. Federal funding would complete the annual dredging that is necessary to maintain the navigability of the Oregon Inlet, helping to ensure continued commercial viability of sea trade routes, protect important commercial fishing waters, and provide an important boost to the economy by protecting trade and fishing jobs.

Department of Energy

Clean Energy Durham - Neighborhood Energy Outreach Center - $500,000

Clean Energy Durham

331 W. Main St., Suite 204

Durham NC 27701

Clean Energy Durham, a non-profit organization whose mission is to move America toward cleaner and safer energy, is seeking federal funds to create a Neighborhood Energy Outreach Center in Durham, North Carolina. The Center will offer training and technical assistance to communities throughout the United States working to create successful volunteer neighborhood energy-saving initiatives.

A Council on Environmental Quality report recently indicated that existing techniques and technologies can reduce home energy use by up to 40 percent per home, and that providing these retrofits creates jobs for all skill levels. Federal investments in sustainability and energy-efficiency are essential in helping our nation move toward energy independence.

ITC - Atmospheric Plasma Treatment of Fossil Fuel Gas Effluent - $500,000

International Technology Center

P.O. Box 13740

Research Triangle Park, NC 27709

The International Technology Center, a non-profit research organization located in the Research Triangle, is seeking federal funds for research into applying atmospheric pressure to fossil fuel effluents as an energy-efficient means of converting them into value-added products such as fuel or fertilizer. The atmospheric plasma system also can be used to produce the hydogen needed for synthesis gas production. Since coal is the most abundant fuel in the U.S., this technology could offer a means to create a clean coal-burning process that is more environmentally friendly than carbon sequestration. Federal investments in energy research are essential to helping move our nation toward energy independence.

NC State - Scanning/Transmission Electron Microscope (S/TEM) - $1 million

North Carolina State University (NCSU)

Campus Box 7214, Admin Services III

Raleigh, NC 27695-7214

NC State is seeking federal funds to purchase equipment to further its nationally recognized research program in nanotechnology. The university would use the funds to purchase an advanced electron microscope that will enable both visualization and chemical analysis of materials regardless of their origin, and a lithography tool to enable the fabrication of complex nanostructures. The tools will be housed in the university's Analytical Instrumentation Facility and Nanofabrication Facility, which are used by researchers from all colleges and departments at NC State. Federal support for this program would further establish North Carolina as a national leader in nanotechnology research and development, which has broad implications for economic development.

UNC-Chapel Hill - High Performance Computing Infrastructure for Modeling Solar Energy - $990,000

University of North Carolina at Chapel Hill (UNC) – Solar Energy Research Center (SERC)

424 Nottingham Drive

Chapel Hill, NC 27517

SERC, a collaboration among several institutions led by UNC-Chapel Hill, is currently researching and developing ways to advance the science of harvesting solar energy to enable development of new, cost-effective solar fuel technologies. The Center is seeking federal funding to assist in the purchase of comprehensive, state-of-the art high performance computing infrastructure to support computational modeling efforts that can test and simulate the outcomes of research hypotheses before testing them as costly lab experiments. Federal investments in renewable energy sources are essential in helping our nation move to toward energy independence, and they hold the potential to create a new generation of jobs and address global climate change.

***Consortium for Plant Biotechnology Research - Plant Biotechnology Research $6 million**

Consortium for Plant Biotechnology Research, Inc

P.O. Box 20643

St. Simons Island, GA 31522

The Consortium supports biotechnology, renewable energy, and environmental research that can translate into market-ready products, new energy technologies, and other practical applications. By promoting the rapid development and transfer of these technologies from academic research laboratories to the marketplace, the Consortium creates new renewable energy industries, jobs, and other economic opportunities.

The proposed project is a critical engine for creating new jobs in the agricultural and renewable energy industries, particularly in high-tech biotechnology areas such as the Triangle. Research facilitated by the Consortium will lead to development of new renewable energy sources that will reduce oil and gas consumption, greenhouse gas emissions, and dependence on foreign oil suppliers. Significant work within this project will be carried out at North Carolina State University and North Carolina Central University.

*Denotes project that was requested by numerous Members of Congress from various states.