



South Carolina Centers of Economic Excellence Funded Proposals

In 2002, the South Carolina General Assembly passed the Research Centers of Economic Excellence Act in order to promote growth of the knowledge-based economy in South Carolina. Oversight of the Centers of Economic Excellence (CoEE) Program is provided by the S.C. Centers of Economic Excellence Review Board. The South Carolina Commission on Higher Education approves the budget for the CoEE Review Board's operations and also provides staff support for the program's day-to-day operations. South Carolina Education Lottery funds in the amount of \$180 million have been appropriated for the program since the 2002-2003 Fiscal Year. Over the last seven years, 49 research proposals totaling \$197.6 million have been approved for funding. South Carolina's three research institutions are required to raise dollar-for-dollar, non-state matching funds in order to access state funding.

The most current information on the CoEE Program is available at www.sccoee.org . A list of funded proposals follows:

| Funding Year 2002-2003 | | | |
|---|------------------------------------|---------------------------|----------------------------|
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Automotive Systems Integration | 1 | \$5 million |
| Clemson | Automotive Manufacturing | 1 | \$5 million |
| USC | Nanostructures | 1 | \$4 million |
| USC/MUSC | Brain Imaging | 3* | \$5 million |
| MUSC | Proteomics | 1 | \$4 million |
| MUSC | Neuroscience | 3 | \$3 million |
| MUSC/USC/CoC | Marine Genomics | 3** | \$4 million |
| Total Awarded in 2002-2003 | | 13 | \$30 million |
| Funding Year 2003-2004 | | | |
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Automotive Design & Development | 1 | \$5 million |
| Clemson | Electronic Systems Integration | 1 | \$3 million |
| Clemson | Photonic Materials | 1 | \$5 million |
| USC | Polymer Nanocomposites | 1 | \$3.5 million |
| USC | Hydrogen & Fuel Cell Economy I *** | 2 | \$2.5 million |
| MUSC/Clemson/USC | Regenerative Medicine | 3 | \$5 million |
| MUSC/USC | Translational Cancer Therapeutics | 2 | \$5 million |
| Total Awarded in 2003-2004 | | 11 | \$29 million |

* Revised to three chairs by act of the CoEE Review Board on January 12, 2009.

** Revised to three chairs by act of the CoEE Review Board on February 23, 2010.

*** The Hydrogen & Fuel Cell Economy CoEE was approved during 2003-2004. Funding for one half of this CoEE was provided in 2003-04, the other half in 2004-2005.

S.C. Centers of Economic Excellence Funded Proposals (continued)

| Funding Year 2004-2005 | | | |
|---|---|---------------------------|----------------------------|
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Restoration [WITHDRAWN] | — | [\$3 million] |
| Clemson | Electron Imaging [WITHDRAWN] | — | [\$5 million] |
| USC | Renewable Fuel Cells | 1 | \$3 million |
| USC | Hydrogen & Fuel Cell Economy II* | [See 03-04.] | \$2.5 million |
| USC/Coastal Carolina | Tourism & Economic Development | 1 | \$2 million |
| MUSC | Gastrointestinal Cancer Diagnostics | 2** | \$5 million |
| MUSC/USC | Cancer Drug Discovery | 4 | \$5 million |
| MUSC/USC | Vision Science | 3 | \$4.5 million |
| Total Awarded in 2004-2005 | | 11 | \$22 million |
| Funding Year 2005-2006 | | | |
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Supply Chain Optimization & Logistics | 1 | \$2 million |
| Clemson | Urban Ecology and Restoration | 1 | \$2 million |
| Clemson | Advanced Fiber-Based Materials | 1 | \$4 million |
| Clemson | Molecular Nutrition [WITHDRAWN] | — | [\$2 million] |
| USC | Solid Oxide Fuel Cells | 1 | \$3 million |
| USC/MUSC | Childhood Neurotherapeutics | 3 | \$5 million |
| MUSC | Molecular Proteomics in Cardiovascular Disease & Prevention | 2 | \$5 million |
| MUSC/USC | Clinical Effectiveness & Patient Safety† | 3 | \$5 million |
| Total Awarded in 2005-2006 | | 12 | \$26 million |
| Funding Year 2006-2007 | | | |
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson/MUSC | Health Facilities Design & Testing | 2 | \$5 million |
| USC | Rehabilitation and Reconstruction Science | 1 | \$5 million |
| USC | Strategic Approaches to Electricity Production from Coal | 1 | \$5 million |
| USC/MUSC/Clemson | Healthcare Quality | 2 | \$5 million |
| USC/Clemson | Senior SMART™ Center ± | 3 | \$5 million |
| MUSC | Tobacco-Related Malignancy | 2 | \$5 million |
| MUSC/USC | Stroke | 3 | \$5 million |
| Total Awarded in 2006-2007 | | 14 | \$35 million |

* The Hydrogen & Fuel Cell Economy CoEE was approved during 2003-2004. Funding for one half of this CoEE was provided in 2003-04, the other half in 2004-2005.

** Increased from one to two by act of the CoEE Review Board on September 8, 2008.

† On September 9, 2008, the CoEE Review Board approved a revision to this proposal which relinquished Clemson University as a collaborative partner and transferred the CoEE chair at Clemson to MUSC.

± The SeniorSMART CoEE was approved in 2007-2008. Funding was provided from 2006-2007 dollars.

S.C. Centers of Economic Excellence Funded Proposals (continued)

| Funding Year 2007-2008 | | | |
|---|---|---------------------------|----------------------------|
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Optoelectronics | 1 | \$2 million |
| Clemson | Cyber-Institute | 1 | \$2 million |
| USC | Nanoenvironmental Research & Risk Assessment | 1 | \$3 million |
| USC | Nuclear Science and Energy | 1 | \$3 million |
| MUSC | Renal Disease Biomarker | 2 | \$5 million |
| MUSC/Clemson | Cancer Stem Cell Biology | 2 | \$5 million |
| MUSC/USC/Clemson | Advanced Tissue Biofabrication | 3 | \$5 million |
| MUSC/USC/SCSU | Cancer Disparities* | 3 | \$3.6 million |
| MUSC/USC | Medication Safety & Efficacy* | 1 | \$2 million |
| Total Awarded in 2007-2008 | | 15 | \$30.6 million |
| Funding Year 2008-2009 | | | |
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Tissue Systems Characterization | 1 | \$3 million |
| USC | Nuclear Science Strategies | 1 | \$3 million |
| USC/MUSC | Healthful Lifestyles** | 2 | \$3 million |
| MUSC | Lipidomics, Pathobiology and Therapy | 2 | \$5 million |
| Total Awarded in 2008-2009 | | 6 | \$14 million |
| Funding Year 2009-2010 | | | |
| Institution (fiscal institution first) | Proposal Title | Endowed Chairs | Proposal Amount |
| Clemson | Sustainable Development | 1 | \$4 million |
| USC | Data Analysis | 1 | \$2 million |
| MUSC | Inflammation and Fibrosis Research | 2 | \$5 million |
| Total Awarded in 2009-2010 | | 4 | \$11 million |

* The Cancer Disparities CoEE and the Medication Safety & Efficacy CoEE were approved in 2008-2009. Funding was provided from 2007-2008 dollars.

** The Healthful Lifestyles CoEE was approved in 2009-2010 with funding from 2008-2009 dollars.



| Program Totals | |
|--|------------------------|
| TOTAL LOTTERY APPROPRIATIONS (2003-2008) | \$180 million |
| ACCRUED PROGRAM INTEREST USED FOR ADDITIONAL AWARDS * | \$17.6 million |
| TOTAL FUNDS AWARDED (2003-2010) | \$197.6 million |

* As permitted by S.C. 2-75-30(A).

| Research Institution Totals | | | |
|--------------------------------------|-------------------|--------------------------|----------------------|
| Institution | Number of Centers | Number of Endowed Chairs | State Funds Drawn |
| Clemson University | 13 | 16 | \$34,889,299 |
| University of South Carolina | 17 | 29 | \$33,910,962 |
| Medical University of South Carolina | 19 | 42 | \$54,490,911 |
| TOTALS | 49 | 87 | \$123,291,172 |

COEE PROGRAM MISSION STATEMENT

The South Carolina Centers of Economic Excellence program serves the public interest by creating incentives for the state's research universities, in cooperation with other institutions of higher education in the state, to raise capital from non-state sources to fund endowments for specialized research professorships. These professorships in turn serve as the nucleus for unique, university-based research centers which cultivate critical, public-private industrial partnerships, expand the state's knowledge base, create well-paying jobs, and enhance economic opportunities and improve the quality of life for the people of South Carolina.