

South Carolina Math and Science Teaching Initiatives



Institution	Clemson University
Initiative	In addition to our regular science and math teacher education, Clemson is creating The TigersTeach Noyce Scholarship Initiative, a collaboration between the College of Engineering and Science, the School of Education and partner school districts. The Initiative targets first year engineering and science students and provides flexible multiple options to become math and science teachers.
Teacher Pool	35
Target Population	Engineering and science students in their first years at Clemson
Partnerships	The College of Engineering and Science, the School of Education, the College of Agriculture, Forestry and Life Sciences at Clemson University and partner school districts in Anderson, Oconee, Pickens and Greenville Counties, SC.
Resources	\$200,000 per year
Funding	We have submitted a grant proposal to the National Science Foundation

South Carolina Math and Science Teaching Initiatives



Institution	College of Charleston
Initiative	To implement a double major in content area and education, increase the number of students from underrepresented groups in STEM disciplines through scholarships, increase grant submissions and subsequent funding, provide SMFT update, and early program detection for future math and science educators.
Teacher Pool	For 2010: Middle Grades: Math/Science: 20 Secondary: Biology and General Science: 22, Chemistry and General Science: 4, Physics and General Sciences: 3, Math: 21
Target Population	We target our freshman and sophomore students who are currently majoring in STEM content areas. Secondly, we encourage post-baccalaureates in content areas not served by area MAT programs. Thirdly, we encourage adult learners.
Partnerships	Misters, Volpe, Teacher Cadets and Teaching Fellows (CERRA), three area school districts, The School of Science and Mathematics, and EHHP Grants Writer and Researcher <input type="checkbox"/> new position
Resources	For academic year 2010: 70 students - \$6600/FTE is \$462,000
Funding	Tuition, Foundations, Grants

South Carolina Math and Science Teaching Initiatives



Institution	USC - Columbia
Initiative	<p>Comprehensive university NCATE accredited teacher education program leading to certification at multiple levels.</p> <p>Goal: By May 2015, increase to 25 each the average number of mathematics and science teacher candidates graduating annually in each Middle Level and each Secondary Education program.</p>
Teacher Pool	<p>For 2010-2011:</p> <p>Middle Level Science: 4</p> <p>Middle Level Mathematics: 4</p> <p>Middle Level Science AND Math: 9</p> <p>Secondary Science: 12</p> <p>Secondary Mathematics: 13</p>
Target Population	<p>For middle level and secondary: undergraduate college students pursuing BA, BS or MT degrees</p> <p>For secondary: career changers pursuing MAT degrees</p>
Partnerships	<p>Assoc of Public Land-grant Universities: SMTI</p> <p>National Science Foundation: S-STEM funded 2007-2012</p> <p>National Science Foundation: Noyce under review</p> <p>Richland 1, 2, Lexington 1, 2, Rich/Lex 5, Fairfield</p>
Resources	<p>Middle Level: \$250,000</p> <p>Secondary: \$300,000</p>
Funding	<p>Grants for NSF</p> <p>Tuition from students many of whom use loans from SC Loan Corporation and TEACH grants.</p>

South Carolina Math and Science Teaching Initiatives



Institution	Winthrop University
Initiative	The first goal is to create a fifth-year MAT program (MAT5) to allow students to have four years to finish an undergraduate degree and complete certification in the fifth year at the graduate level. The second goal is to design a general science option for Biology and Chemistry majors.
Teacher Pool	We anticipate 64 STEM completers by the end of year 5. The increase in completers is primarily due to the increased numbers anticipated in the MAT5 area. Currently, we average 7 STEM completers.
Target Population	Recruitment will focus on mid-career changers, current undergraduate majors in math and science, high school students in the Teacher Cadet Program, middle school students in ProTeam, and high school students who are interested in STEM careers.
Partnerships	In fall 2010, our NetSCOPE Partnership Network will consist of six Professional Development Schools and twelve Partner Schools. By 2014, there will be 12 PDS sites and 35 PS sites. CERRA is a partner.
Resources	There are sufficient STEM faculty in both Math and Science areas to provide the required coursework. An external funding application has been submitted to support a Full Time Graduate Assistant and one course per year reassigned time for a faculty coordinator.
Funding	The University has applied for external funding for scholarships and administrative costs. The NetSCOPE grant will fund student recruitment.