

Alabama DOE EPSCoR

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The Alabama DOE EPSCoR Program is made up of three integrated components including **Program Coordination, Human Resources Development, and Energy Research Clusters**. All programmatic elements are coordinated through a statewide steering committee.

The first Implementation Award for the Alabama DOE EPSCoR Program (1994-2000) had three energy research clusters: **Fusion Energy, Novel Organic Semiconducting Materials, and Petroleum Reservoir Characterization**. Alabama's second Implementation Award (2001-2007) builds on the success of these clusters and expands the interest and focus of energy related research through **Fuel Cell** technology and manufacturing.

Collectively, the success of the first three energy research clusters can be measured against the record that they established during the six-year tenure of their work. For an investment of \$3.4 MM from DOE and \$4.4MM from institutional/state matching, these programs supported the research of: a) 21 research professors, b) 32 post-doctoral associates, c) 40 doctoral-level graduate students, and d) 41 undergraduate research students. Their research also brought in an additional \$18MM in non-DOE EPSCoR funding.

Add to these numbers the \$1.5MM from DOE, state and institutional sources for Human Resources Development activities elevating energy awareness among K – post doctoral participants, an additional \$1.2MM from DOE Traineeship Awards and success in the DOE State Laboratory Partnership Awards by six investigators at a total of nearly \$2.1MM and the true impact of the support base for energy-related programs in Alabama is quite evident.

The Fuel Cell energy research cluster is located at the University of Alabama and Alabama A&M University (HBCU). The program is in its fourth year of the second Implementation Award. DOE awarded the Fuel Cell group a total of \$1.2MM for four years with matching support from institutional/state matching. To date, the program has supported: a) 13 research faculty, b) 10 undergraduates, c) 15 graduates, and d) three post-doctoral associates. Their research has thus far produced an additional \$5MM in non-DOE EPSCoR funding.

The Human Resources Development Travel and Enhancement Grant Programs are intended to help cover the costs incurred by young Alabama researchers seeking an opportunity to visit a Federal Laboratory for the purpose of on-site research or developing collaborative research between institutions. Since the programs were initiated, 12 research faculty from four EPSCoR institutions, including one HBCU, one visiting scholar, one undergraduate student, 10 graduate

students, and one post-doctoral associate have participated in research efforts at Argonne, Oak Ridge, Los Alamos, and the Pacific Northwest National Laboratories.