



## EPSCoR Funding in Alabama

### Science and Engineering

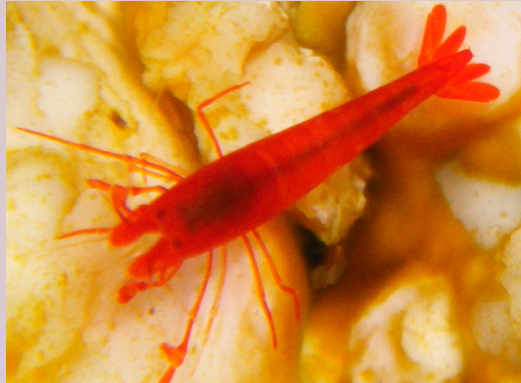
- EPSCoR funded research is studying the use of nanoparticles for drug delivery applications.

- EPSCoR researchers are also studying the use of nanoparticles to create environmentally friendly advanced “green” composites.
- EPSCoR funded research has developed a new class of optical sensors for detecting and characterizing environmental toxins from environmental spills due to natural disasters. This technology has led to a new start-up company in Alabama.
- EPSCoR researchers are developing magnetic-fluorescent nanoparticles for cancer treatment and diagnostics.

degrees by the end of 2010. EPSCoR is increasing the number of highly trained M.S. and Ph.D. graduates in Math, Science, and Engineering.

### Space

- EPSCoR researchers are developing shape alloys, a unique class of materials which can recover from an implied load. These materials may have future applications in higher temperature service aerospace applications.



### Biotechnology/ Commercialization

- EPSCoR funded Structural Biology research was instrumental in bringing Hudson-Alpha Institute for Biotechnology, a 150-acre biotech campus located in Cummings Research Park, the nation’s second largest research park in Huntsville, Alabama.

### Energy

- EPSCoR researchers are developing solid-oxide fuel cells for high-efficiency, low-emission energy conversion. This technology is one small step to help to solve the nation’s energy crisis.

### Workforce Development

- State matching support for EPSCoR graduate student stipends has led to a total of 27 M.S. degrees and 73 Ph.D.



### Education

- EPSCoR infrastructure building programs introduced more than 2,000 individuals across Alabama to science and technology concepts in 2010. This included K-12 students and teachers, community college participants, industry members, and others.

