Alabama has a rapidly growing automotive industry. Since 1993 the automotive sector has created more than 35,000 new jobs and $6.4 billion in capital investment in Alabama.

The UAB GATE center is focused on training students in advanced lightweight materials and manufacturing technologies for automotive and related sectors.

Pay-offs: Low-cost composite materials and lightweight castings and fabrication technologies, design and manufacturing of future generation automobiles, mass transit and light, medium and heavy trucks.

**UAB GATE PARTNERS**

- UAB School of Engineering (Materials Science & Engineering, Mechanical Engineering, Biomedical Engineering, Civil Engineering)
- National Composite Center, Kettering, Ohio
- Miles College, Lawson State Community College, Heritage Center
- Alabama Automotive Companies (Honda, Mercedes, Hyundai and ancillaries)
- Small Businesses (Castings, Plastics and Composites Manufacturer’s)
- DOE Oak Ridge National Laboratory
- Society for Plastics Engineers

**REPRESENTATIVE GATE STUDENT PROJECTS**

- Composite materials processing technologies for automotive & mass transit applications
- Long Fiber Thermoplastics - Processing & Performance Evaluation
- Automotive Castings Technologies
- Focus on lightweight automotive technologies
- Thermoforming and Process Simulation
- Modeling of crash & protective padding

**Graduate Automotive Technology Education (GATE) Program**

For additional information about UAB GATE or to become a GATE Fellow – Contact Dr. J. Barry Andrews (Project Director); UAB Materials Science & Engineering; 205-934-8451 or barry@uab.edu

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