

# [CU-ICAR: Clemson University International Center for Automotive Research](#)

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What started as a simple idea turned into a catalyst for global automotive engineering

## Quick Facts

In 2003, CU-ICAR was simply an idea. Over a decade later, this vision has become a reality. What was once a dream is now a vibrant campus.

**CU-ICAR VISION:** To be the premier automotive research, innovation and educational enterprise in the world.

**CU-ICAR MISSION:** Be a high seminary of learning, in the field of automotive engineering; Lead translational research, with emphasis on industry relevance, and support with excellence in basic research; Contribute to high value job creation in South Carolina; Lead global thinking on the sustainable development of the automotive sector

Despite the early stage of our development, we have been diligently measuring and monitoring our growth and success to date. It is important to see our progress in quantifiable terms, and below we lay out these figures.

### CU-ICAR Education:

**95% of students are gainfully employed in the Automotive Industry**

**Global student population representing 17 countries**

**26% of our alumni are employed in the state of SC**

**183 total M.S. and PhD degrees awarded**

**4 Endowed Chairs in 4 key research areas:**

- *BMW Endowed Chair in automotive Systems integration*
- *BMW Endowed Chair in automotive manufacturing*
- *Michelin Endowed Chair in Vehicle Electronic Systems Integration*
- *Timken Endowed Chair in Automotive Design and Development*

## CU-ICAR Research

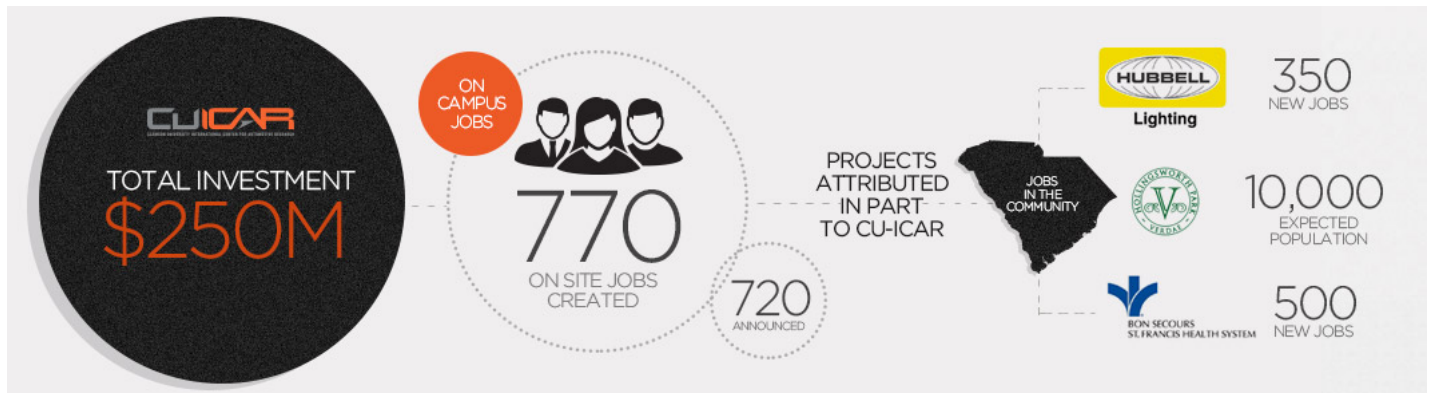


### 7 Strategic Research Areas:

- *Advanced Powertrain Systems*
- *Automotive Systems Integration*
- *Human Factors/HMI*
- *Manufacturing and Materials*
- *Vehicle Performance*
- *Vehicle-to-Vehicle Connectivity and Vehicle-Infrastructure Integration*
- *Vehicular Electronics*

11% of Total College of Engineering and Science Research Expenditures for FY2011  
 \$1 million grant awarded by the U.S. Department of Energy's GATE division

## CU-ICAR Economic Development Impact



### Total Investment = \$250 million

- \$26.4 million – Clemson University and the Clemson University Real Estate Foundation
- \$95.5 million – State and local or other government
- \$55.8 million – Private industry and private developers
- \$36.0 million – State and private industry partnerships (50/50) in 4 engineering program endowed chairs
- \$19.7 million – Private industry equipment related
- \$250,000+ million – Fellowships & Scholarships

### Surrounding Projects Attributed In Part To CU-ICAR

- Verdae Development  
 1,100 acre mixed-use development with an expected population of 10,000
- Hubbell Lighting Corporate Headquarters  
 \$36M investment with 350 new jobs created
- St. Francis Health System  
 50 acres Medical Buildings with 500 new jobs created

### CU-ICAR Total Campus Population/Jobs:

On site = 770  
Announced = 720

## CU-ICAR Campus Information



### 5 Technology Neighborhood developments planned on campus

5 occupied buildings in Technology Neighborhood I

- *CU-ICAR AutoPark & Innovation Place*
- *BMW Information Technology Research Center*
- *Carroll A. Campbell Jr. Graduate Engineering Center*
- *Koyo JTEKT (Collaboration Building 3)*
- *Center for Emerging Technologies (CET)*

### 4 LEED Certified Buildings

- *Carroll A. Campbell Jr. Graduate Engineering Center – LEED-NC Silver*
- *Collaboration 3 Koyo JTEKT Group – LEED-NC Gold*
- *CU-ICAR AutoPark & Innovation Place – LEED-NC Gold*
- *Center for Emerging Technologies-Seeking LEED-NC Silver*



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