

Advanced Technology & Manufacturing

Advanced Technology & Manufacturing is one of the six industry clusters identified in 2004 by Gov. Rick Perry as part of his long-term, strategic job creation plan. Each cluster was selected because of its powerful potential for future economic growth.

The Advanced Technology & Manufacturing cluster is made up of three subclusters: nanotechnology, semiconductors and automotive manufacturing. Texas' world-class universities and research facilities, highly trained workforce, strong government and private business support and a thriving business climate make Texas a national and global leader in all three subclusters.

Nanotechnology

The science of very small things means big business in Texas. Nanotechnology involves the engineering of materials at the scale of atoms and molecules. Nanotech and its applications cross all six Texas industry clusters.

Texas is a global leader in nanotechnology R&D; is nationally ranked for nanotech-related activities including research, venture capital, and commercialization; and has laid claim as the birthplace of nanotechnology. In 2006/2007, *Small Times* magazine ranked Texas sixth overall in its annual ranking of top 10 micro and nanotechnology states, fifth for innovation, and sixth for research. Major Texas nanotech employers include LynnTech Inc., Southern Clay Products, Applied Optoelectrics Inc., Zyvex Corporation and Molecular Imprints.

Semiconductors

Texas is the birthplace of the integrated circuit and has been a global leader in the semiconductor industry since the 1950s. Texas ranks second in overall high-tech and semiconductor employment, number of establishments and semiconductor employment, according to TechAmerica's (formerly AeA) *Cyberstates 2010* report. Major Texas semiconductor employers include Samsung, Texas Instruments (TI), Raytheon, Freescale Semiconductor, Advanced Micro Devices (AMD), and Labinal. Texas is home to one of the semiconductor industry's top 10 global companies (TI) and one of the world's top 10 chip makers (Freescale Semiconductor).

TI has been instrumental in many key semiconductor industry developments, including the late Dr. Jack Kilby's invention of the integrated circuit (IC) in 1958. Dr. Kilby went on to hold more than 60 patents, develop popular products like the pocket calculator, and win the 2000 Nobel Prize in Physics for his role in the IC invention.

Automotive Manufacturing

Texas is a major player in the automotive manufacturing marketplace and a top market for full-sized pick-up trucks and SUVs. The Lone Star State is nationally top-ranked for automotive employment and establishments, vehicle retail market size, and vehicle registrations. Texas is a right-to-work state with a well established automotive manufacturing marketplace that is experiencing continued growth, despite the economic downturn. The state is the single largest retail market for full-sized pickups, which is why some call it "Truck Country." In 2009, an estimated one in seven full-sized pickups was sold in Texas and over one in five new vehicles registered in Texas were full-sized pickups.



Texas is part of the growing NAFTA-spurred automotive corridor and is home to two major automotive manufacturing assembly plants operated by GM and Toyota. GM has manufactured vehicles in Arlington for over 50 years. Toyota opened a new Toyota plant in San Antonio in 2006, and in 2009 announced that Tacoma pickups will move production from California to its San Antonio manufacturing facility. In addition to GM and Toyota, major Texas auto manufacturing employers also include Peterbilt Motors, Navistar International and BAE subsidiary Global Tactical Systems.

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