

Georgia Tech Hydrogen Activities

The Georgia Institute of Technology has a broad range of testbeds, industry partnerships, and federal programs across the hydrogen value chain, including hydrogen production, storage/transport, and utilization. Georgia Tech is also focused on developing diverse STEM talent for such industries.

Hydrogen Production

Georgia Tech has activities in various pathways to producing hydrogen, including renewable energy sourced “green” hydrogen, carbon-sequestered “blue” hydrogen, and nuclear energy sourced “pink” hydrogen. Crosscutting technologies such as advanced electrolysis cells are being developed under industrial and agency sponsorships.

Hydrogen Storage/Transport/Logistics

Georgia Tech has an array of projects to investigate novel modes of hydrogen storage, including hydrogen carriers like ammonia and advanced storage vessels like specialized composite pressure vessels. Georgia Tech also houses the Supply Chain and Logistics Institute, which works with a variety of industries in rail, ground transport, pipelines, and electric grid optimization and design.

Hydrogen Utilization

Georgia Tech one of the largest national test and evaluation centers for utilizing hydrogen in electric power plants, with major technology development, testing, and R&D programs with multi-national companies and the Department of Energy. Georgia Tech also has a range of fuel cell development activities for transport and electric power applications. Work is also underway to use hydrogen as a feedstock for renewable fuels and chemical development.

Hydrogen Workforce

Georgia Tech is the largest producer of engineers in the country, including one of the largest producers of Black, Latino, and female engineers. Georgia Tech has a range of activities associated with developing the hydrogen STEM workforce.

About Georgia Institute of Technology

The Georgia Institute of Technology, or Georgia Tech, is a top 10 public research university developing leaders who advance technology and improve the human condition. The Institute offers business, computing, design, engineering, liberal arts, and sciences degrees. Its nearly 40,000 students representing 50 states and 149 countries, study at the main campus in Atlanta, at campuses in France and China, and through distance and online learning. As a leading technological university, Georgia Tech is an engine of economic development for Georgia, the Southeast, and the nation, conducting more than \$1 billion in research annually for government, industry, and society.

For more information, visit research.gatech.edu/energy.

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