

Expanding Siemens Digital Capabilities

U.S. Innovation Day 2018

Siemens has reinvented itself into **one of the world's top 10 software companies,** creating digital solutions that enable customers across the company's largest market to reduce costs, improve reliability, develop new business models and improve quality of life for millions of Americans.

Making it Real



Teaming up with Microsoft

to prove alternative energy sources for data centers, including establishing the world's first zerocarbon, waste-to-power data center in Wyoming



Partnering with Chicago-based utility company Commonwealth Edison to build and test software that will manage community microgrid clusters



Providing digital twin software to companies like startup RadioBro for faster time-to-market



Saving the City of Chicago millions in USD by retrofitting their water supply with Siemens technology



Introducing virtual verification software that dramatically reduces the number of logged test miles necessary to demonstrate autonomous vehicle safety

Increased U.S. R&D Investment



\$175 million

increase in U.S. R&D spend year-over-year



\$1 billion

invested in U.S. R&D in 2017



In Chicago, Siemens is investing nearly \$13 million annually in a new digital R&D hub focused on cloud and internet-of-things applications to support the building management and automation market.



New Digital Service Hubs

New digital and R&D hubs across the U.S. expand Siemens' digital focus, including eight new U.S.-based MindSphere Application Centers (MAC) — digital services hubs dedicated to developing innovations for data analysis and machine learning with customers.

MindSphere Application Centers

Alpharetta, GA Foster City, CA
Atlanta, GA Pittsburgh, PA
Berkeley, CA Austin, TX (2)
Orlando, FL

R&D Hubs

Chicago, IL: Building Technologies Princeton, NJ: Corporate Technology Berkeley, CA: Corporate Technology Charlotte, NC: Energy



Building a Next-Generation Workforce

1,500+ open positions across the U.S.

Software or STEM-related education is required for most open positions

Training & recruiting for backgrounds in computer science & engineering, combined with expertise in software development & programming



Hiring 120 positions in Illinois & Texas for Building Technologies' digital services hub

Hiring 100 digital positions in PLM in software & coding

Hiring IoT researchers and big data scientists in areas such as artificial intelligence, machine learning and 3D design at R&D centers in Berkeley, Princeton and Charlotte

Atlanta MindSphere Application Center

Siemens is using intelligent sensors and software tools at its Atlanta MAC to put intelligence behind billions of data points created on the country's rail systems, insight that helps operators like the Atlanta Streetcar reduce unplanned downtime, improve operational efficiency, enable improved performance and generate energy and cost savings.

Advancing the Innovation Pipeline

Siemens' commitment to advance and secure its technology has resulted in:



15,000 total patents held in the U.S.



5 inventions per day



614 U.S. patents filed in 2017