

In demand

Building control technology, which provides more points of control over energy use in a facility through technology, is a hot workforce area. A technician can monitor and make adjustments to maintain energy costs, from fan speed to temperature and airflow. Energy consumption can even be automated based on occupancy of a building.

LCC, which started its building controls tech program in 2013, has industry partners that include Siemens, Johnson Controls and Automated Logic. Siemens has 342 jobs posted for students coming out of the program based on their understanding such systems, Ebbage said.

Despite the availability of good-paying jobs, industry and colleges continue to struggle to draw students' interest in these careers. They are skeptical that these jobs are here to stay and whether the pay is good, Ebbage said. They often hear conflicting media reports on how well the energy sector is doing.

Better alignment needed

Roger Grant, program director for the National Institute Building Sciences, a nongovernment nonprofit, said that building efficiencies have dramatically improved over the years, but there is room for improvement. The main problem is that energy efficiency is not integrated into daily management practices, he said.

A SEED-DOE partmership: Better Building Guidelines

Some of the barriers include a patchwork of technical standards and codes, no national skill standards, and nonaligned training content and programs, Grant said.

There is also no infrastructure to support national credentials, he said.

The U.S. Environmental Protection Agency once faced similar challenges in convincing the public to use energy-efficient appliances, Grant said. But it was able to pull the industry together to agree on accepted standards that the public could easily recognize, which was key to the success of EPA's Energy Star program.

The U.S. Department of Energy is helping by recognizing certain energy-related jobs, such as building energy auditor, energy manager and building operations professional. Through better outreach, government and industry can make the public aware of these jobs, Grant said, noting that building science occupations earn 14 percent above the national average and are projected to grow nearly 10 percent from 2013 to 2018.



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