



Facilities Engineering
and Design Services for
**Educational
Applications**

SCIENCE AND TECHNOLOGY FACILITIES | RESEARCH LABORATORIES | ACADEMIC BUILDINGS | DORMITORIES AND HOUSING | ADMINISTRATIVE BUILDINGS | STUDENT AREAS | ATHLETIC FACILITIES | CAMPUS INFRASTRUCTURE

Erdman Anthony knows the unique facilities needs of colleges and universities.

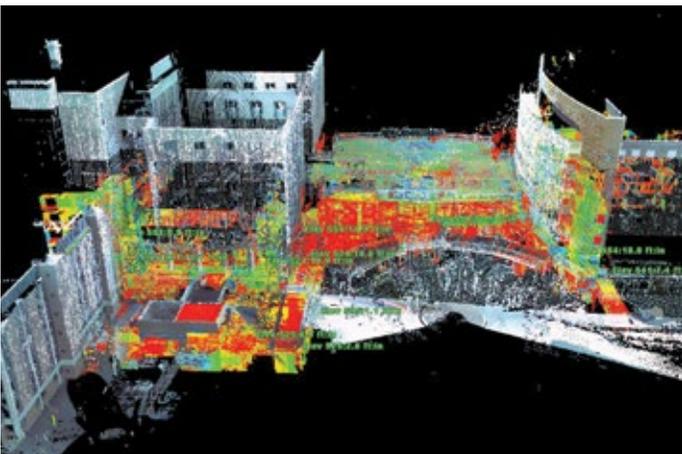
Higher education institutions are evolving and adapting their campuses to include learning, teaching, living, and working environments with superior versatility, usability, energy efficiency, safety, and cost-effective operation. Creating these spaces and reducing maintenance costs are top priorities and constant challenges for campus facilities managers.



Virtual Design: Laser Scanning and Building Information Modeling (BIM)

Erdman Anthony uses the latest industry tools to design, analyze, and simulate new or existing buildings, saving time and money when optimizing systems, spatial coordination, and visualizations. We do this using efficient data collection and management, plus information-rich models.

- **Laser scanning** captures existing building conditions and produces highly accurate 3D images that can be converted to 3D computer models suitable for further engineering procurement, construction, and facilities management processes.
- **Building information modeling (BIM)** adds associated documents or output reports to the created data in the 3D model, combining graphical and nongraphical data to be used for accessing specific information from the design.



Engineering and Consulting Services

Whether renovating existing buildings, or building new, Erdman Anthony brings superior engineering skills, decades of hands-on experience, fluency in the latest technologies, and a multidisciplinary approach to every campus project. Our satisfied customers, including universities, four-year liberal arts schools, and community colleges, are the best measure of our success.

Building Systems Engineering

- Heating, Ventilation, and Air-Conditioning Systems
- Process Piping and Plumbing Systems
- Fire Protection and Life Safety
- Refrigeration Engineering
- Electrical Power and Distribution
- Lighting Systems
- Telecommunications
- Building Management and Control Systems (BMS)



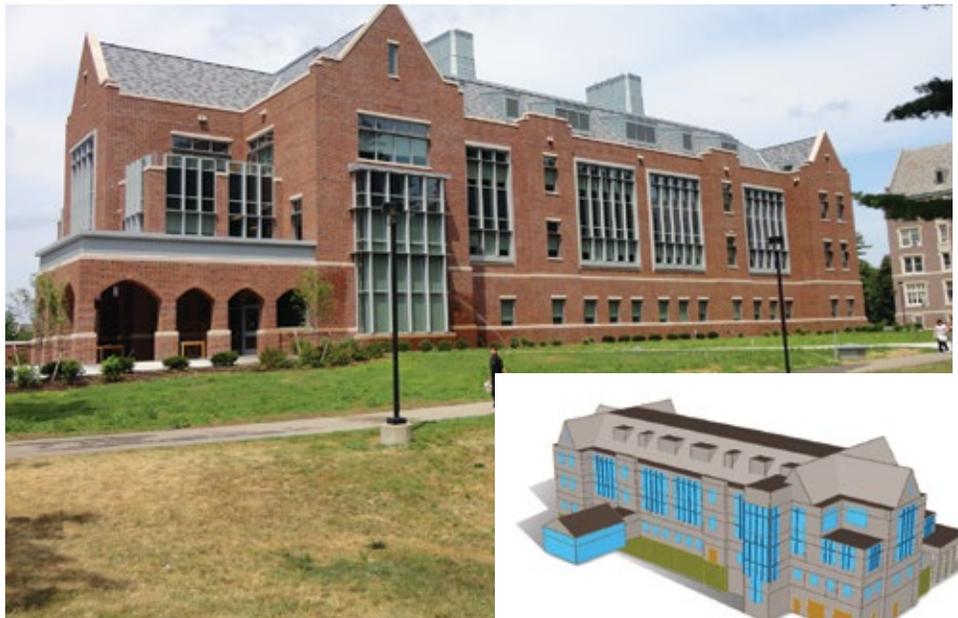
Infrastructure Engineering

- Energy Generation Systems
- Energy Distribution Systems
- Electric Substation Design
- SCADA Systems
- Underground Utility Systems
- Site and Transportation Areas



Building Performance Engineering

- Integrated Energy Modeling and Life-Cycle Analysis
- Sustainable Design Support
- Energy Audits/Assessments/Studies
- Green Certification Consulting (LEED® and Green Globes)
- Commissioning Services for New Buildings and Substantial Renovations
- Commissioning Services for Existing Buildings



Public Perception: Beauty, Function, Efficiency

SUNY Geneseo's Bailey Hall is a model of energy efficiency and cost efficiency that fully supports student needs and campus requirements. Erdman Anthony's design for the building reduced energy costs by 24%, or \$71,415, per year. Our design also reduced greenhouse gas emissions by 175 tons per year.

Safety and Social Responsibility – A Safer and Greener Space

Erdman Anthony addressed safety concerns at a BSL2 animal research lab by designing an air-handling unit with redundant supply fans and redundant general and fume-hood exhaust systems.



Get proven higher education facilities design experience from Erdman Anthony.

Since 1954, we've been dedicated to developing superior infrastructure solutions by partnering with our clients, studying their unique situations, and listening carefully to their needs.

- **Named a "Top 500 Design Firm" by *Engineering News-Record* for 30 consecutive years**
- **Our quality management system is certified to the ISO 9001:2015 standard.**

Members



To learn more about our experience in higher education design, visit:

www.erdmananthony.com/HigherEd

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ERDMAN ANTHONY. YOUR RESOURCE FOR SUSTAINABLE BUILDING SOLUTIONS

Higher education facilities turn to Erdman Anthony's SustainabiliTEAM™ for one reason: We focus on the factors that can lead to significant energy savings in new and existing buildings.

Erdman Anthony has a long-standing commitment to sustainable and energy-efficient design. Our SustainabiliTEAM brings together engineering designers, energy consultants, and commissioning professionals for a comprehensive approach to sustainable design and operation of buildings.

From new-facility design and improving operations through commissioning to energy studies and audits, our SustainabiliTEAM uses a custom approach to achieve optimal solutions in quality and sustainability. Save energy and money with Erdman Anthony's SustainabiliTEAM.

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ANTHONY 
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