

Pathways to the Standards Workforce

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WORLD STANDARDS WEEK, 2023

Pathways to the Standards Workforce via SUNY Poly

1. SUNY Poly: a standards-rich environment
2. Inclusion, student success, diversity in workforce preparation
3. Pathways through **experiential learning**:
 - SAE Baja Club
 - Green Buildings
 - Materials Testing, Software, and more

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WORLD STANDARDS WEEK, 2023

Green Building Experiential Learning Collaborative

POWERED BY SUNY POLYTECHNIC INSTITUTE



Project Objectives

Make campuses into living laboratories

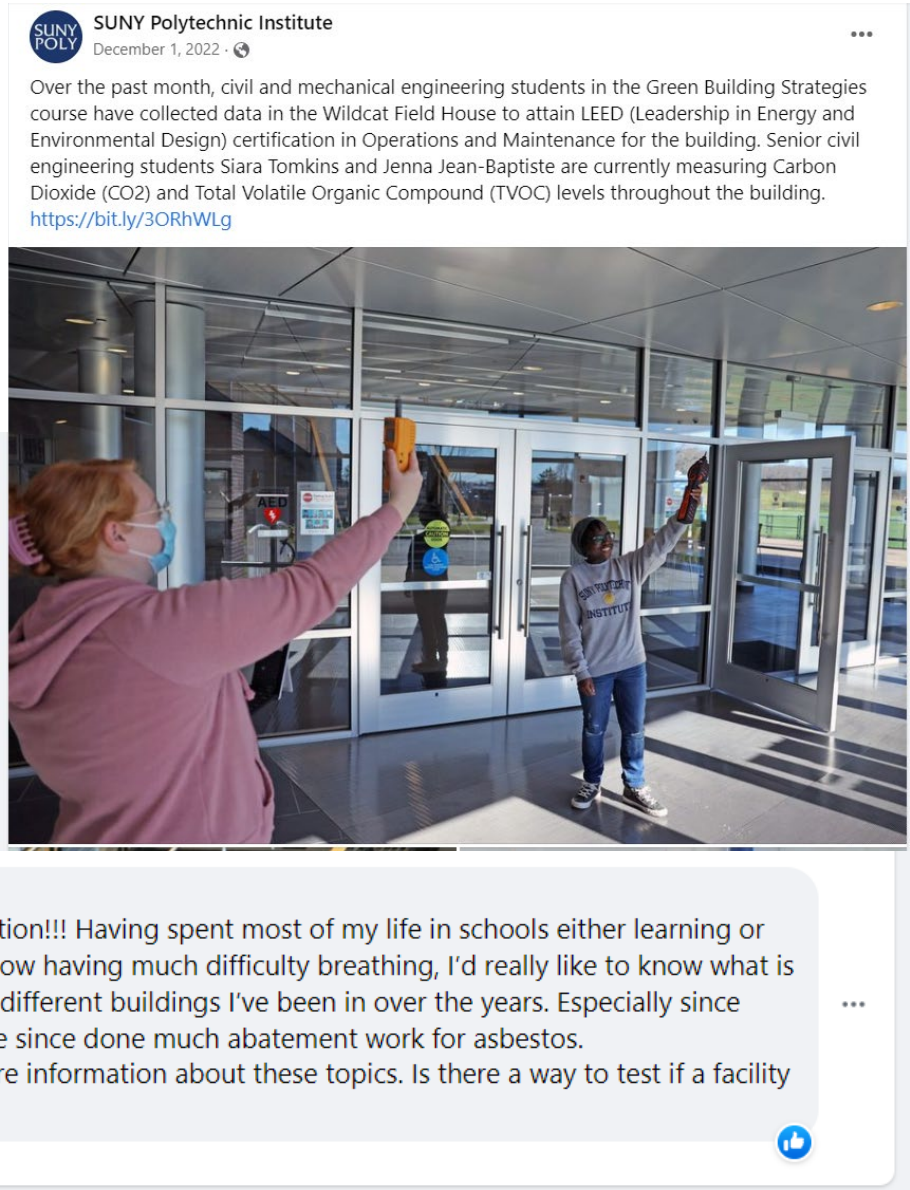
- Teach new experiential learning courses in which students certify existing campus green buildings

Develop NYS Workforce

- Students earn personal industry credentials (LEED GA)
- Develop capacity of faculty & staff accreditations (LEED AP)

Scale capabilities across SUNY

- Share expertise and best-practices with other campuses
- Increase in-house capacity for measuring air quality and real-time performance sensing



Pathways to the Standards Workforce via SUNY Poly

- Standards throughout the curriculum:
 - In CTC 255 (Principles of Geotechnical Engineering) class, we use 10 ASTM standards for 10 tests on soils.
 - In CTC 240 (Civil Engineering Materials), we use 12 ASTM standards for conducting 12 different tests on aggregates.
 - In IDS 103 (Science, Technology, and Human Values), the course theme this semester is Metrics and Measurement, where students learn about the history of the metric system and quantification from humanistic perspectives.
 - In MTC 240 (Solid Modeling and 3D Printing), we utilize ANSI Drafting Standards which are built into the software.
 - Standards are prominent in some of our largest programs, including: Interactive Media & Game Design; Computer Science; Cybersecurity; Accounting; Nursing; and Health Informatics.