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# Industrial Training and Assessment Center (ITAC)

*Formally the Industrial Assessment Center (IAC)*

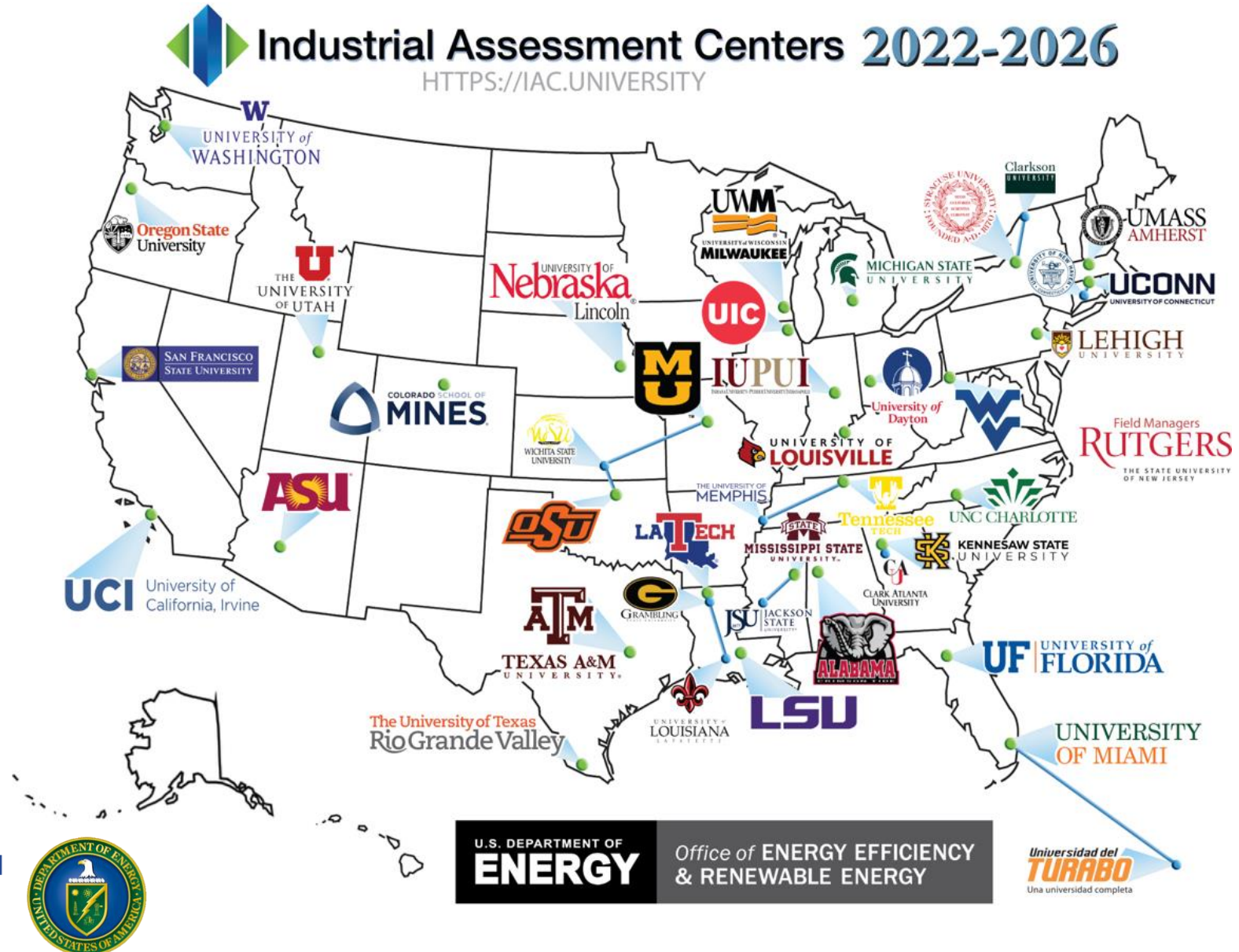
*January 29, 2025*

*Kristen Cetin, PhD, PE, LEED AP*

*Director, Michigan State University, Industrial Training and Assessment Center (MSU ITAC)*



# (1) Industrial Training & Assessment Centers: *National*

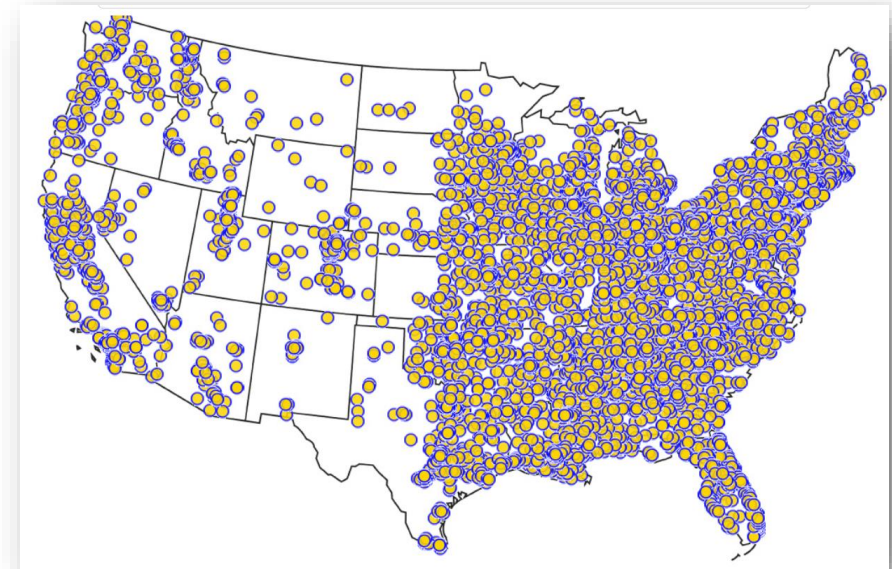


# (1) ITAC Mission & Goals: *Energy, Cost & Emissions Savings, Waste Reduction*

## (a) Supporting Manufacturers and Commercial Buildings (20-30 per year)

### Industrial Assessments

- Annual energy bills: 100K to \$3.5 million.
- Annual sales: less than \$250 million
- Less than 500 employees / plant



### Commercial Building Assessments (pilot)

- 50,000 to 100,000 sq ft



*Average **\$158,931** in identify savings per assessment (past 10 yrs)*

***50.4%** implementation rate (industrial)*

***52.4%** implementation rate (commercial)  
(as of 01/20/25, past 10 years)*



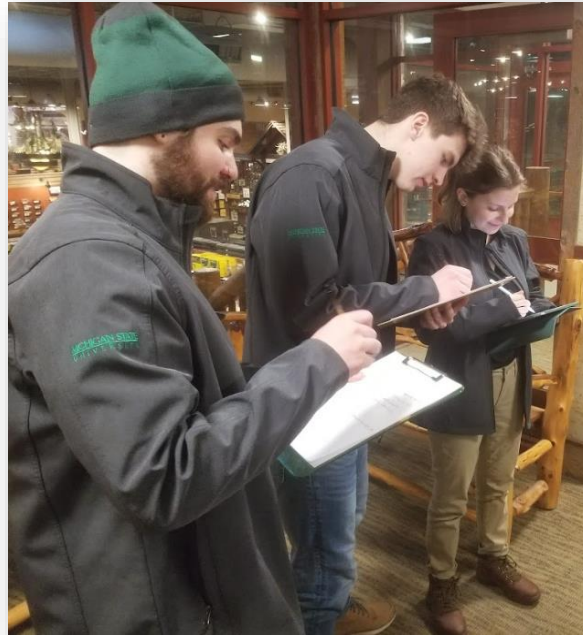
# (1) ITAC Mission & Goals: *Workforce Development*

## (b) Train future workforce

- College/university & community college students
- Develop curriculum
- Teach energy & manufacturing related skills;
- Hands-on involvement/learning
- Provide & support internship/traineeship opportunities

67 students trained in 2022-2024 at MSU, HFC and MTU

2025 cohort of 15 at MSU, 3 at MTU, and ~10 at HFC



# (1) ITAC Expansion Centers

38 + ; at labor unions, community and technical colleges, trade schools, and apprenticeship readiness providers

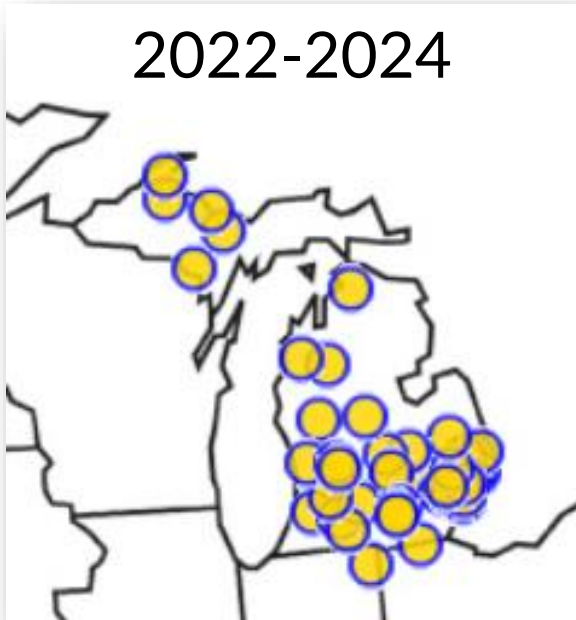
Arkansas State University Newport  
Baltimore City Community College  
Bucks County Community College  
Central Alabama Community College  
County College of Morris  
DEW HVAC Training Services Center  
Greenfield Community College  
Idaho State University College of Technology  
Iowa Lakes Community College  
Jobs to Move America  
Johnston Community College  
Lorain County Community College  
Northeast Community College  
Spokane Community College  
Tulsa Community College  
Ulster County Community College  
United Auto Workers Region 6  
United Steelworkers Local Union 1-689 (USW Local 689)  
University of Arkansas - Pulaski Technical College  
University of Wisconsin-Milwaukee  
Western States Council of Sheet Metal, Air, Rail, and Transportation (SMART)  
Arizona Western College (Yuma/La Paz Counties Community College District)  
Atlanta Technical College  
Bridgevalley Community & Technical College  
Wichita State University Campus of Applied Sciences and Technology.....



Focus on **training** energy & manufacturing workforce; provide services for **manufacturers** to save energy, improve performance, and reduce emissions



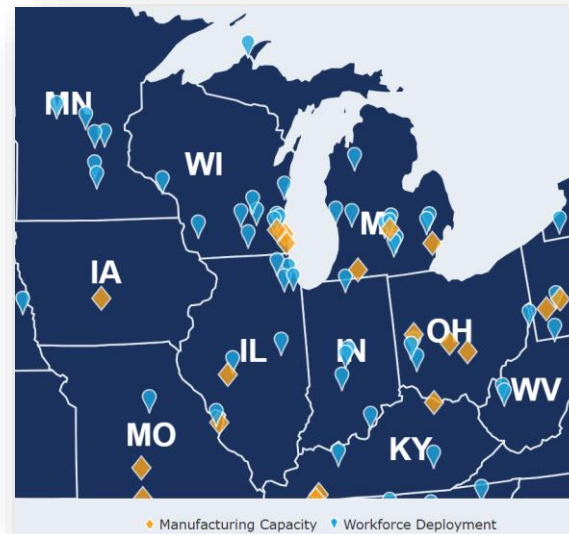
## (2) Case Study



Visit from Secretary of Energy  
(Paramount Coffee)

Most recent assessments (2023-2024):  
**\$84,184** in identified savings  
**\$43,811** in implemented savings  
(per manufacturer per year)

Commonly implemented: compressed air leaks, reduced compressor pressure, steam traps, LED, tax free status  
Greatest savings: Solar PV, Equipment upgrades



10 implementation grants in Michigan: \$1.2 million

# (3) Request ITAC Assessments & Implementation Grants

**Assessments:** <http://iac.university> (click “Apply now”)

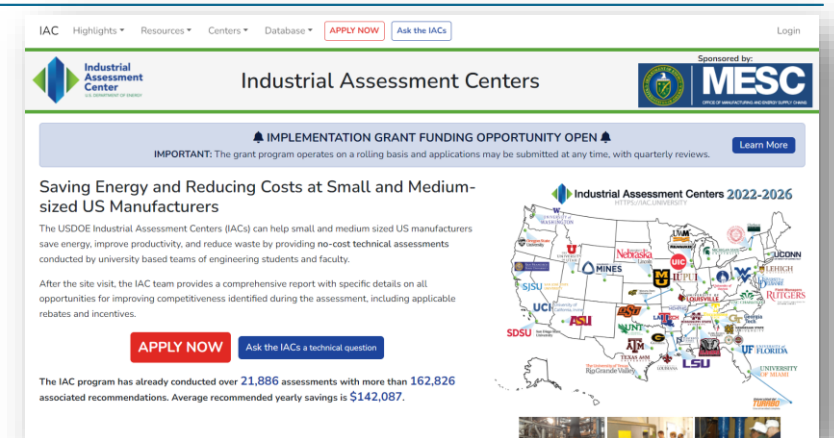
## Implementation Grants

up to \$300,000 per unique assessment recommendation,  
at a 50% cost share (\$5,000-\$300,000 request/application)

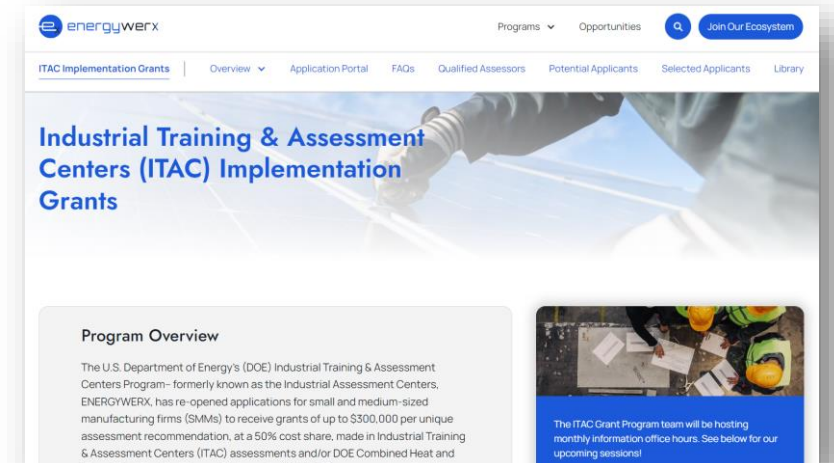
**Application Frequency:** 1/quarter

**Must have an assessment completed by:** ITAC, Onsite Energy TAP, or qualified 3<sup>rd</sup>-party assessor (see list on website)

**Acceptance:** ~90% (for those qualified)



The screenshot shows the Industrial Assessment Centers website. At the top, there is a navigation bar with links for IAC, Highlights, Resources, Centers, Database, and buttons for 'APPLY NOW' and 'Ask the IACs'. The main header features the Industrial Assessment Center logo and the MESC logo. A prominent announcement reads: 'IMPLEMENTATION GRANT FUNDING OPPORTUNITY OPEN'. Below this, a section titled 'Saving Energy and Reducing Costs at Small and Medium-sized US Manufacturers' provides details about the program. A map of the United States is shown with various university logos representing participating IACs. A red 'APPLY NOW' button is visible.



The screenshot shows the EnergyWerx website. The header includes the EnergyWerx logo and navigation links for Programs, Opportunities, and a 'Join Our Ecosystem' button. The main content area is titled 'Industrial Training & Assessment Centers (ITAC) Implementation Grants'. Below the title, there is a 'Program Overview' section with text describing the program. A small image shows a person working at a computer. A blue box at the bottom right of the screenshot contains text about monthly information office hours.

<https://www.energywerx.org/itac>



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