Living Our Land-Grant Mission

Preparing Iowa’s Future Ready Workforce

> 48 of Iowa’s 50 Hot Jobs require at least a bachelor’s degree*

> ISU’s curriculum responds to state’s high-demand jobs:
  • Cyber security engineering
  • Business administration, business analytics
  • Human resources management
  • Data science
  • Actuarial science
  • New teaching degrees

> 58% of ISU graduates stay in Iowa to work

*Source: https://www.iowaworkforcedevelopment.gov/2018-2028-hot-jobs-statewide
“This is truly a class that I’ll remember for the rest of my life. I’ll be 50 years old and I’ll be telling my kids what I learned in the I+E Academy. It’s a great investment of my time and it has shown me that Iowa State really supports my dreams and is a great school for entrepreneurship.”

-- Jassma’ray Johnson, psychology and communication studies
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Iowa State Responds to Avian Influenza Outbreak

> Veterinary Diagnostic Laboratory
  • Daily testing and mitigation

> Iowa State Extension and Outreach
  • Working directly with producers
  • Providing education on symptoms, prevention, biosecurity resources
**Innovation Impacting Iowans and the World**

**$1M USDA-NIFA grant to study biochar**
- Fertilize crops, manage manure odors, reduce greenhouse gases
- Add value to Iowa’s bioeconomy

**$2M NIH grant for blood stem cell research**
- Treat diseases like leukemia and anemia by regenerating patient’s own blood cells

**3-year NEH grant for Parkinson’s research**
- How singing can improve patients’ breathing and swallowing
Early-Career Faculty Excellence

National Science Foundation CAREER Awards

Tichakorn (Nok) Wongpiromsarn
Assistant Professor of Computer Science

Thomas Iadecola
Assistant Professor of Physics

Henry Duwe
Assistant Professor of Electrical and Computer Engineering
Celebrating 75 Years of Partnership and Innovation

Commercial Successes:

Lead-free solder
- Used in virtually all electronics world-wide
- ISU’s top-earning patent; $60 million before patent expired

Metals 3D Printing
- Central Iowa startup, Iowa Powder Atomization Technologies, sold to multi-billion-dollar company, Praxair

Biofuel Production
- Improving the effectiveness and efficiency of biofuel production

• Iowa State is the only university with a DOE national laboratory located on campus.

• Ames Laboratory is home to the Critical Materials Institute, accelerating supply chain solutions for rare-earth metals and materials critical to the success of clean energy technologies.

• Congress approved $75 million Critical Materials Supply Chain research facility; location under consideration
Wilhelm’s Way: The Inspiring Story of the ISU Chemist Who Saved the Manhattan Project

Teresa Wilhelm Waldof
Author and Granddaughter of Dr. Wilhelm