
IOWA STATE UNIVERSITY[®]

OF SCIENCE AND TECHNOLOGY

Education Appropriations Subcommittee Hearing
Wendy Wintersteen, President
Feb. 13, 2023

State of Iowa
Executive Department
IN THE NAME AND BY THE AUTHORITY OF THE STATE OF IOWA
PROCLAMATION

- WHEREAS,** The State of Iowa General Assembly in 2022 unanimously approved Senate File 2380 and Governor Kim Reynolds signed the bill establishing February 1 of each year as an annual official Day of Recognition in honor of George Washington Carver; and
- WHEREAS,** George Washington Carver's life provides remarkable inspiration: Having been born into slavery in Missouri, Carver came to the state of Iowa, where he was first admitted to Simpson College to study art and had his paintings exhibited at the Columbian Exposition in Chicago; and
- WHEREAS,** He was subsequently accepted at Iowa Agricultural College and Model Farm (now Iowa State University) as its first Black student, earning both bachelor's and master's degrees in horticulture, and then becoming Iowa State's first Black faculty member; and
- WHEREAS,** Heeding the call of Booker T. Washington, president of Tuskegee Institute (now Tuskegee University), Professor Carver went to the Tuskegee Institute in Alabama, where he spent the rest of his life applying his innovative genius to agriculture, becoming world renowned for creating hundreds of products made from peanuts, sweet potatoes and other native Southern crops; and
- WHEREAS,** By providing nutritional advice to Mahatma Gandhi, Professor Carver played a not insignificant role in the people of India today living without hunger and in freedom and democracy; and
- WHEREAS,** How George Washington Carver overcame racial roadblocks to become one of America's most significant agricultural scientists of the first half of the 20th century, is a unique Iowa story with the power to inspire future generations; and
- WHEREAS,** Iowa State University is hosting a celebration program to honor one of its most renowned alumni on February 1st, the inaugural George Washington Carver Day in the state of Iowa and the beginning of Black History Month:
- NOW, THEREFORE, I, Kim Reynolds, Governor of the State of Iowa, do hereby proclaim February 1, 2023:**

George Washington Carver Day



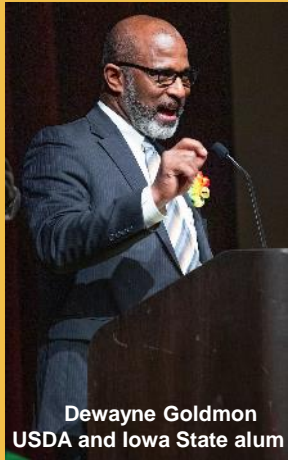
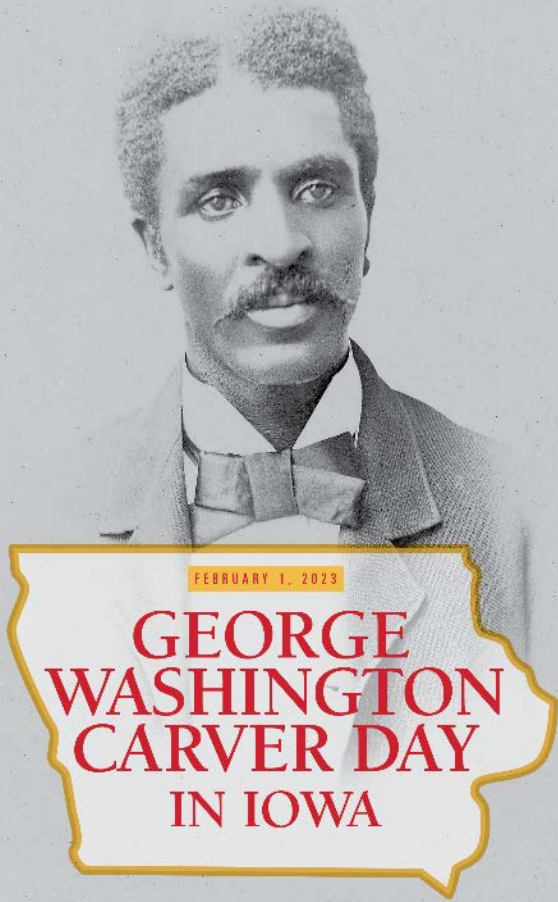
IN TESTIMONY WHEREOF, I HAVE HEREUNTO
SUSCRIBED MY NAME AND CAUSED THE GREAT
SEAL OF THE STATE OF IOWA TO BE AFFIXED.
DONE AT DES MOINES THIS FIRST DAY OF
FEBRUARY OF THE YEAR OF OUR LORD TWO
THOUSAND TWENTY-THREE

Kim Reynolds
KIM REYNOLDS
GOVERNOR OF IOWA

ATTEST:
Paul Pate
PAUL PATE
SECRETARY OF STATE

George Washington Carver Day in Iowa

- > May 2022: Iowa Legislature votes unanimously to approve SF 2380 establishing George Washington Carver Day in Iowa
- > June 17, 2022: Governor Reynolds signs legislation
 - > Dr. Carver was Iowa State University's first Black student in 1891 and first Black faculty member
- > February 1, 2023
 - > Governor Reynolds signs proclamation for inaugural George Washington Carver Day in Iowa
 - > Dr. Carver is only the third person to have a day of recognition in Iowa
 - > 650 people attend in-person or virtually the campus celebration at Iowa State University



Dewayne Goldman
USDA and Iowa State alum



Ambassador Ken Quinn



Marsha Kelliher
Simpson College



Olga Bolden-Tiller
Tuskegee University



Simón Estes



Paxton Williams
Dr. Carver scholar and Iowa State alum

IOWA STATE'S VALUE:

An Affordable, Career-Ready Education

FRESHMEN ENROLLMENT

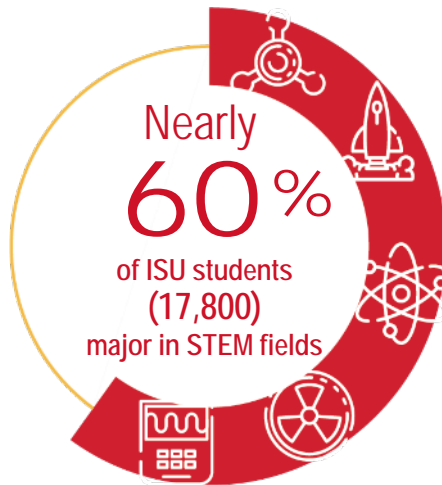
up 6% over
last year;

up 13%
over past
two years



Nearly
60%

of ISU students
(17,800)
major in STEM fields



Historic low
time-to-degree
4.18 years



95% of ISU graduates are
working or continuing
their education within 6
months of getting their
bachelor's degree



58%

of ISU graduates
stay in Iowa



INNOVATE at Iowa State

**7,075 students (1 in 4)
enrolled in 95 courses
with an entrepreneurship focus,
representing 85 academic majors**

CYstarters

**has helped 117 students
start 92 companies
(70% still active)**



NATIONAL, GLOBAL RECOGNITION

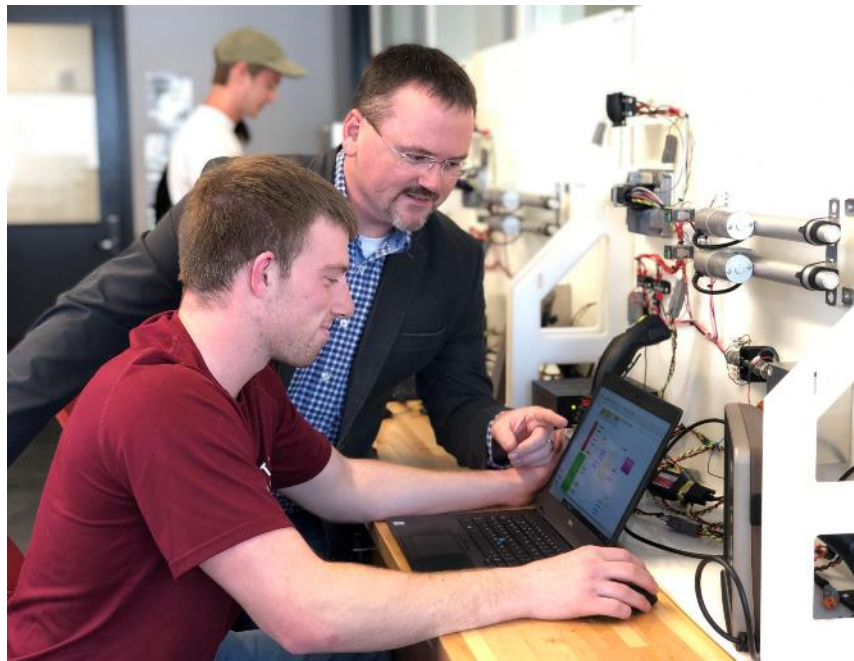
RANKED #11
by the
Princeton Review
for undergraduate
entrepreneurship
(third year in a row)

APLU
Innovation
and Economic
Prosperity
Award
FOURTH
AWARD IN
6 YEARS

2022
Nasdaq Center
for Entrepreneurial
EXCELLENCE
AWARD
to ISU Pappajohn
Center for
Entrepreneurship

IOWA STATE'S VALUE:

National Research Powerhouse



#17

FY21 Research Ranking

Top 3%

in the nation for research
out of 489 universities
without human medical schools

Record
\$284.2 million
in FY22 external
research funding

↑ 23%
Increase
over FY21

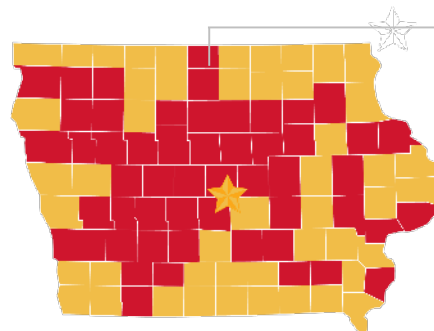
IOWA STATE'S VALUE:

Economic Growth and Job Creation



Companies open locations at the ISU Research Park to have proximity to Iowa State to access faculty expertise, research, innovation and student talent

ISU Research Park Statewide Impact



2,328 TENANT EMPLOYEES

AVERAGE ISURP SALARY: \$68,000

200+ INTERNS WORK AT ISURP AT ANY GIVEN TIME

53 COUNTY LOCATIONS IN ADDITION TO THEIR ISURP PRESENCE

445 EMPLOYEES LOCATED THROUGHOUT IOWA FOR ISURP FOUNDED COMPANIES



Iowa's Public Universities

**#3
in the
nation**

**for highest
student returns
on investment**

Iowa State University's
"mechanical engineering program
graduates nearly 500 students per year and
supplies a median ROI of nearly \$925,000.
Other valuable, high-enrollment degrees at
Iowa State include general business,
agricultural business, finance, marketing,
computer engineering,
and electrical engineering."



FY24 Legislative Request:

\$12 million

Future Ready Workforce



First-Generation Iowa Students



Rural Resiliency and Vitality



Rare Earth Independence



Digital Ag, Manufacturing & Biosciences



Preparing Iowa's Future Ready Workforce

Iowa State University offers programs for 49 of Iowa's 50 Hot Jobs

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

*Source: <https://www.iowaworkforcedevelopment.gov/2018-2028-hot-jobs-statewide>

Requesting \$4 million

Develop “degrees of the future” to address state’s workforce needs

Recently created programs include:

- > Cybersecurity engineering
- > Artificial intelligence
- > Business administration, business analytics
- > Human resources management
- > Data science

Support interdisciplinary Cyber Facility

- > 11% of ISU undergraduates (~2,800 students) are majoring in cyber programs (cyber security engineering, computer science, software engineering, electrical engineering)

Ensuring Success for First-Generation Students

2022-2023 Hixson Scholars



23% of ISU undergraduates (~5,800 students) are first-generation

Programs in all 99 counties to recruit first-gen students

- > Example: Hixson Opportunity (privately funded since 1995) – avg. award \$18,000 per student over 4 years

Across all programs:

- > \$4 million in financial aid in FY22

Requesting \$2 million

Leverage state resources with private support to expand need-based aid

Strengthening Rural Resiliency and Vitality

Iowa State University Extension and Outreach directly benefits 1 in 3 Iowans every year

Permanent physical presence in all 99 counties

Front-door access to ISU local experts, customized support and research-based solutions



Requesting \$1 million

- > Expand capacity to address mental health through Extension's Mental Health First Aid and Question.Persuade.Refer programs
- > Expand personalized programs that connect Iowa farmers with mental health, financial and technical assistance
- > Create affordable housing in rural communities
 - > Example: 3D-printed housing project in Hamburg, Iowa



Critical Materials Institute

Supporting America's Rare Earth Independence

Requesting \$3 million

- > Develop and pilot new technologies to recycle used computer hard drives
- > Create new magnets from recycled rare earths
- > Establish a recycling research center at the Ames National Lab to speed development of recycling technologies
- > Establish Iowa as "rare earth hub" to attract new businesses





Fostering Innovation in Digital Agriculture, Manufacturing and Biosciences

Requesting \$2 million

- > Expand hands-on clinics to help farmers get the most benefit from digital technology in modern farm machinery
- > Help Iowa firms defend against cyber attacks
- > Research related to soil management, water quality and weather resiliency
- > Support ISU's 65-person Digital Ag Innovation Team that works with Iowa's top agribusinesses (Deere, Sukup, Ag Leader, etc.)
- > ISU Research Park workforce immersion program for freshmen and sophomores

Veterinary Diagnostic Laboratory Phase 2

Requesting \$62.5 million

- > Appreciate Governor Reynolds funding allocation of \$40 million for Phase 2
- > Remaining request: \$22.5 million
- > Phase 2 will ensure all laboratory functions are co-located to support efficiency and biosafety

