Goal 1: Ensure Access to the ISU Experience

Provide an exceptional education offering practical, global, and leadership experiences that shape the well-rounded citizens and informed critical thinkers needed in the 21st century.

• Iowa State’s 2017 bachelor’s graduates enjoyed an overall 94% placement rate within six months of graduation; of those who were employed, 62% of resident students, 22% of nonresidents, and 29% of international students remained in Iowa to begin their careers. Master’s and Ph.D. graduates enjoyed 96% placement rates. Of master’s students who were employed after graduation, 42% are employed in Iowa, including 66% of Business graduates and 53% of Human Sciences graduates.

• Recent gifts to the Iowa State University Foundation are enhancing student success, including a $159 million endowment to support the College of Liberal Arts and Sciences; a $50 million gift to name the Debbie and Jerry Ivy College of Business; $14 million in additional support for the Student Innovation Center; and major gifts to establish the Robert T. Hamilton Poultry Teaching and Research Farm, and the Chassis Dynamometer System and Control Project.

• Iowa State continues to promote access and affordability for Iowa students. Fall 2018 enrollment includes a record 4,863 domestic multicultural students, who represent 14% of the student body, and more than 7,500 first-generation students.

Goal 2: Enhance the University’s Research Profile

Conduct high impact research that addresses the grand challenges of the 21st century.

• Iowa State was selected to lead the National Institute of Antimicrobial Resistance Research and Education, an interdisciplinary and inter-institutional effort to address the challenges of antimicrobial resistance and improve the health of humans, animals, and the environment.

• ISU worked with the Iowa Economic Development Authority to grow and accelerate the transfer of research discoveries to the market in the priority areas of biobased chemicals, precision and digital agriculture, and vaccines and immunotherapeutics.

• Iowa State was named a National Science Foundation Innovation Corps site to enable researchers to explore the commercial potential of their emerging technologies and expand ISU’s culture of entrepreneurship.

• Researchers are part of a multi-institutional effort funded by the Defense Advanced Research Projects Agency to study the use of viruses and aphids to activate desirable traits that allow corn plants to withstand stresses brought about by drought or disease.

• I-Change, a newly funded Presidential Initiative, focuses on multidisciplinary research approaches to implement small, strategic changes in agricultural practices that can deliver abundant, affordable, and safe food to the world, as well as positive outcomes for natural landscapes.

• Iowa State is part of a newly funded Department of Defense Multidisciplinary University Research Initiative to examine how additive manufacturing processes impact the properties of final products, aligning with Iowa’s economic development focus on advanced manufacturing.

Iowa State faculty and staff are working to make textbooks and course materials more affordable for students. Two faculty in the Department of English saved students $179,000 in a single semester — $130 for each of nearly 1,400 students — by using e-materials for their course. Another professor in Mathematics adopted an open source textbook that was free online, or available for a nominal price for students who prefer a printed version.

The U.S. Department of Energy (DOE) Ames Laboratory, operated by Iowa State under a contract with the federal government, will lead a new Center for Advancement of Topological Semimetals (CATS). The center, one of the newest Energy Frontier Research Centers, is part of a $100 million DOE effort to accelerate the scientific breakthroughs needed to strengthen U.S. economic leadership and energy security. Ames Laboratory scientist and ISU professor Rob McQueeney will partner with researchers from national and international institutions on the discovery of new materials, and how to harness them for transformative changes in areas such as photodetection, light harvesting, and spintronics.
Goal 3: Improve the Quality of Life for All Iowans

Provide services and programs dedicated to economic development and the promotion of healthy communities, people, and environments.

- The Iowa Lean Consortium, founded eight years ago to promote business efficiency throughout the Iowa economy, merged with the Center for Industrial Research and Service. With over 130 member organizations, ILC provides the philosophy and tools to meet business challenges through members serving members.
- Researchers submitted 145 disclosures of intellectual property, filed 89 new patent applications, and received 42 patents last year. ISU technologies resulted in 51 license/option agreements worldwide (21 in Iowa) and provided the basis for two new Iowa startup companies; 185 license/option agreements are currently yielding income; ISU was ranked among the top 100 universities worldwide granted U.S. patents in 2017.
- Students gained valuable professional experience while making contributions to Iowa companies. Career services offices documented 2,400 ISU interns who were employed by more than 1,000 different Iowa employers in 268 communities in 89 counties.
- ISU Extension and Outreach offered a short course in feedlot management for beef producers; 16 participants expected an economic return of $10-15 per head, providing an economic impact of $5-7.5 million. Over 600 survey respondents who participated in forage programs reported an economic return of at least $500.
- ISU Extension and Outreach community development specialists helped 28 minority owned businesses start or improve their businesses last year. Participants in the Volunteer Income Tax Assistance program prepared tax returns for nearly 1,400 low-income Iowans, generating $667,000 in refunds.

Goal 4: Enhance and Cultivate the ISU Experience

Create an environment where faculty, staff, students, and visitors are safe and feel welcomed, supported, included, and valued by the university and each other.

- Results from a 2017 university wide climate survey were communicated to campus in spring 2018, and led to the creation of workgroups to address the experiences of students, post docs, faculty, merit, and professional and scientific staff.
- Student Affairs implemented a comprehensive approach to communicate and set expectations around Iowa State’s Principles of Community throughout its many initiatives and activities.
- Iowa State is collaborating with the Ames mayor’s and city manager’s offices, and the Ames Chamber of Commerce, to expand ISU’s efforts to create a more inclusive community, and strengthen the university’s town and gown relationship.
- Iowa State’s Public Safety Department rededicated its efforts to build a best practice Engagement and Inclusion Officer Initiative by hiring a full-time officer to run the program, with a focus on serving international students and organizations, serve as a liaison to the International Students and Scholars Office, and develop educational programming.
- Academic Affairs continues to emphasize transparency in creating and maintaining a more inclusive campus climate through the distribution of its annual Diversity and Inclusion Report.
- The Public Safety Department staffer a new crowd observation team during large athletic events to enhance game day safety and security.

HELPING IOWA GROW

The U.S. faces a critical shortage of young people with the skills and training to meet 21st century workforce needs. Through 4-H youth development programs, ISU Extension and Outreach connects with 1 in 5 Iowa K-12 students to build their STEM skills, improve college and career readiness, provide service opportunities in their communities, and retain them as future young professionals in Iowa. In the photo above, former NASA Astronaut Mae Jemison talks with 4-H youth about the importance of STEM and the impact it has on their lives.

David Peters, associate professor of rural sociology, is leading a five-year project that uses big data to predict and prevent the spread of opioid abuse in rural and micropolitan areas.

Jeannette Mukayisire (center, in striped dress), a human sciences specialist with ISU Extension and Outreach, offers research-based financial education classes to residents of the Meskwaki Nation in Tama.
Goal 1: Ensure Access to the ISU Experience

**FY2018 INITIATIVES**

- Completed an extensive review of student onboarding processes to ensure all students have knowledge of ISU's culture and community, can easily navigate the university, and are aware of academic success programs.
- ISU tuition and fees remain the lowest of its peer group, $4,000 lower than the peer average for resident students, and $10,000 lower for non-residents.
- More than 41% of ISU undergraduates experienced two or more high-impact practices via their coursework or co-curricular involvement.
- Placement rates for ISU graduates continue to be strong, with 94% of bachelor's graduates, 96% of master's and Ph.D. recipients, and 93% of veterinary medicine graduates reporting employment within six months of graduation.
- Student debt decreased by more than 3% in FY17; 59% of graduates borrowed, the lowest percentage since records have been collected.

Goal 2: Enhance the University’s Research Profile

**FY2018 INITIATIVES**

- The Institute for Transportation continued a multi-year expansion on funded projects, exceeding $20 million in research expenditures.
- Iowa State University was named among the U.S. colleges and universities that received the most Fulbright U.S. Scholar awards for faculty.
- The prestigious National Science Foundation CAREER grant was awarded to seven ISU early career researchers displaying outstanding potential in academic leadership and scholarly advancement, the second highest number for the university and a record for the College of Engineering.
- Research at Iowa State led to 32 patents granted last year, placing ISU in the top 100 worldwide universities granted U.S. patents in 2017.
Goal 3: Improve the Quality of Life for All Iowans

CIRAS and SBDC Impact
- $639M increased sales
- 5,749 companies served
- $184M new capital
- $19M costs savings
- 6,799 jobs added/retained
- $841M economic impact

FY2018 INITIATIVES
- The Center for Industrial Research and Service and Small Business Development Center served 5,700 different Iowa companies in FY2018, helping create or retain 6,800 jobs, and generating more than $841 million of total economic impact.
- The ISU Startup Factory partnered with four regional SBDCs and community colleges in northwest Iowa to launch the Startup Factory Network, a new initiative that brings the program to rural entrepreneurs developing scalable businesses.
- ISU Extension and Outreach, a 99-county campus that connects university research and services to Iowa communities, generated $897 million in economic impact in FY2018. More than 1 million Iowans benefited from educational programs for economic growth, thriving communities, and sustainable environments.
- ISU Extension and Outreach is using a $72,000 grant from the Upper Explorerland Regional Planning Commission to conduct a two-year study of workforce attraction and housing in six northeast Iowa counties.

ISU Extension and Outreach Impact:
- 5.5M contacts with Iowans
- 700K direct contacts
- 1.33M downloads/purchases of educational materials
- 3.47M web/social media contacts

ISU Research Park Productivity
- 12 new companies
- 18 companies in ISU Startup Factory
  - > $13M in capital raised, and 66 new jobs created since the program’s inception
- 15 student-run CYStarters companies

Research Park Totals
- 87 tenant companies
- > 2,100 employees
- > 450 student interns

Goal 4: Enhance and Cultivate the ISU Experience

FY2018 CAMPUS CLIMATE INITIATIVES
- Created implementation teams to develop initiatives based on campus climate survey results.
- Expanded Principles of Community to include off-campus entities such as ISU Extension and Outreach.
- Provided resources for departments and programs to create more inclusive spaces.
- ISU Police Department improved special event planning, staffing, and management processes.
- ISU Police also increased in-service training, added bicycle patrol officers, and developed supervisors’ managerial and leadership abilities.

Diversity

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Iowa State continues to improve its recruitment of diverse students, faculty, and staff, including record multicultural enrollment in Fall 2018.

Campus Crime Incidence

In FY2018, the ISU Police Department hired a full-time officer with a focus on serving international students, as part of developing a best practice engagement and inclusion initiative.