

## **Iowa State University FY22 Non-Federal Research Funding Overview**

Iowa State received \$86 million in non-federal research funding in FY22. This exceeds the previous record of \$79.8 million set in FY19 by \$6.2 million, or 7.8%, and tops FY21's total of \$76.3 million by \$9.7 million, or 12.7%.

Increases in Industry/Corporate and State of Iowa Government funding were key contributors to FY22's record-level non-federal research funding. Support from Industry/Corporate sources totaled \$27.8 million, up nearly \$6.6 million – or 30.8% -- from FY21, and a new university record for this category. Research funding from State of Iowa Government agencies increased from \$21.4 million in FY21 to \$22.6 million in FY22, a 5.5% increase.

A sampling of the largest sponsors that supported Iowa State research in the Industry/Corporate funding category in FY22 were: Deere & Company; Ceva Sante Animale; BASF Corporation; Pratt & Whitney – a Division of United Technologies Corporation; Core Parts LLC; and Merck & Company Inc.

Iowa State continues to be viewed as a strong research partner by its peers in higher education. The \$16.5 million in funding from academic research partners (Higher Education and Foreign Higher Education combined) is a slight increase over the \$16.4 million received in FY21 and is the highest total in the past five fiscal years.

Here are just a few notable research projects that received funding from non-federal sources in FY22:

- Access to quality, [affordable housing](#) is one of the most significant factors that limits economic growth and development in rural Iowa. A three-year \$1.4 million project funded by the Iowa Economic Development Authority (IEDA), and led by Industrial Design assistant professor, Pete Evans, is intended to redefine affordable housing through a comprehensive innovative technologies strategy for rural communities. Iowa State is partnering with Iowa Central Community College (ICCC) and Brunow Contracting to create an ecosystem that supports the design and development capabilities needed to produce, affordable, resilient housing anywhere in the state
- Anuj Sharma, the Pitt-Des Moines, Inc., Professor in Civil Engineering and research scientist at Iowa State's Institute for Transportation (InTrans) received initial funding of \$355,429 from the Iowa Department of Transportation (IDOT) for a two-year project with an estimated total award of \$502,265. Sharma and his multidisciplinary team – with expertise implementing real-world autonomy solutions – will explore the field readiness, economic efficiency and overall viability of [operator-assist solutions](#) to help snowplow drivers continue their critical work through inclement conditions of heavy snow and low visibility.
- Latina/o/x students are overrepresented in the community college sector, yet their attainment rates lag behind other racial/ethnic groups. Increasing the number of post-secondary degrees and credentials is important for the Latina/o/x population and the broader U.S. economy. Ethnic studies courses is a key area of interest for closing the opportunity gap for Latina/o/x community college students. One recent study found a strong correlation between ethnic

studies course-taking and graduation rates at San Francisco State University. Erin Doran, assistant professor, Education, received an award of \$50,00 from the Spencer Foundation to explore why taking Mexican American Studies (MAS) courses seemingly contributes to Latina/o/x students' academic success. The project, involving focus-group interviews at three community colleges, will be framed around the following questions:

1. What are the experiences of community college students who enroll in MAS courses?
    - a. Why do students choose to enroll in MAS courses?
    - b. How do MAS courses impact the short- and long-term aspirations of students, both in and out of the classroom?
  2. How do MAS programs in community colleges foster success for Latina/o/x students?
    - a. How do MAS courses support students' academic and personal development?
- Julia Dominguez, professor of Spanish in the Department of World Languages and Cultures, was awarded the prestigious [Biruté Ciplijauskaitė Research Fellowship](#) from the Institute for Research in the Humanities (IRH) at the University of Wisconsin-Madison. The fellowship included a stipend of \$60,000, office space, support services and access to all university facilities during her residency at UWM in the 2021-22 academic year. Dominguez's research focuses on early modern Spanish literature with a special emphasis on Cervantes from the standpoint of the rise of science and speculative thought in the Renaissance. Dominguez invested her time during the fellowship developing a new book project on the influence of the art of memory on poetry in early modern Spain.
  - In February, Merck Animal Health (MAH) and Iowa State announced a new four-year strategic alliance. The alliance will bring together industry insights and expertise involving various business units at MAH with multiple departments and colleges within the university to work together on research and development, manufacturing, new technology, business development and more. As part of the initial launch, MAH and Iowa State established a first phase of sponsored research projects exploring innovations in drug and vaccine delivery.