

Feed Technology Center

The Feed Technology Center, part of the College of ACES at the University of Illinois, is a state-of-the-art facility dedicated to advancing feed technology and animal nutrition in partnership with the grain, livestock, companion animal, and feed industries.

About

The Feed Technology Center will accelerate scientific discovery in feed science, grain storage and processing, and feed and pet food manufacturing. With nearly 12,000 square feet, the new facility replaces a 95-year-old feed mill and features cutting-edge equipment and software capable of producing specialized small-batch research diets. The Feed Technology Center supports groundbreaking nutrition research, industry outreach, and education of the next generation of professionals.

Key Features

- 195,000 bushel whole dry grain storage including three 65,000 bushel grain bins
- 10,000 bushel wet grain bin
- Concrete truck loadout bins, 12 with 1,450 bushel each
- Mill production rate around 20 tons per hour (TPH) of mash feed and 5 TPH of pelleted feed
- Dryer capable of 750-1000 bushels per hour (BPH)
- Complete automated control system for feed production
- Standalone extrusion line

SEPT 2018 Public-Private Partnership Formed NOV 2018 Project Announcement JUN 2019 Construction Began SEPT 2020 First Corn Delivery

FTC

Operational



Feed Technology Center Capabilities

The Feed Technology Center comprises a myriad of interdependent capabilities integrated to provide full system services ranging from grain storage to milling and bagging.

- Storage of Grains and Feed Ingredients—Three GSI 42-foot, 15-ring bins with accessories including power bin sweeps, fans, sidewall stairs, and full peak walkaround, in addition to one GSI 10,000-bushel wet bin.
- Ingredient Processing—Capabilities include grinding, pre-mixing, mixing, pelleting, crumbling, bagging, delivery of research animal diets, and a standalone extrusion line. Equipment includes 14 ingredient bins able to hold 28,000 cubic feet. A multi-channel, inline near infrared (NIR) system will monitor the compositional quality of feed ingredients in real time.
- *Digitally Connected Facility*—Cutting-edge software automating, managing, and optimizing mill performance and sustainability provide new tools for feed mill operators, researchers, and animal producers. Modern equipment allows for precise diet formulations.
- **Personnel**—Support from technical experts and the vast human capital found in the University's faculty.
- Safety—Safety of those working in the facility, as well as biosecurity of feedstuffs, are a high priority. All equipment and spaces are designed for total cleanout and sanitation between products to fully comply with FDA regulations and manufacturing practices. In addition, the facility is fully equipped with 21st century safety features such as sidewall stairs on storage bins. Security protects feed ingredients and the animals that will consume diets formulated in the Feed Technology Center.
- *Education*—Illinois animal nutrition scientists and hundreds of undergraduate and graduate students will take advantage of the facility's capabilities to design and test healthy, efficient diets for livestock, poultry, and companion animals. Additional educational opportunities include continuing education and workshops for feed industry employees.

Partners

Thank you to these donors for their support of the University of Illinois Feed Technology Center.

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To learn more about expanding scientific discovery and the Feed Technology Center, please contact the ACES Office of Advancement at acesadvancement@illinois.edu or 217-333-9355.

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