

Fresno State's Agricultural Laboratory: It's essential and so is your support



Fresno State has a proud legacy of educating students with real-world, hands-on experience for all facets of agriculture. An essential component to produce the well-rounded, employable student is the University Agricultural Laboratory, commonly referred to as the Campus Farm. The present-day 1,000-acre farm located on campus has a strong track record of shaping knowledgeable students, experienced with first-hand successes – and failures—from hands-on crop and animal agricultural enterprises.

While providing practical “real-world” farming challenges for students, the Campus Farm -- as an actual working farm -- also faces the volatile supply-and-demand nature of agricultural markets and increased farming costs. The Campus Farm has a history of generating the majority of its needed cash-flow, but like many farms today, that has changed. Escalating production costs and declining prices, as well as reduced financial support for education from the state, have generated the need to pursue additional financial and in-kind support. The Jordan College of Agricultural Sciences and Technology is initiating a significant capital campaign to provide the investment needed to meet the goal of providing highly productive, innovative and dynamic leaders for California's food and agriculture sectors.

Goals – Building a permanent fund and in-kind support

- Building an endowment to support the University Agricultural Laboratory will be an essential investment to ensure career ready professionals.
- In-kind support opportunities are available across the 1,000 acre laboratory.

Both financial and in-kind donations are critical to making sure the resources are there to empower faculty and students through the comprehensive approach of offering classroom and laboratory instruction, hands-on food processing and on-farm practical application opportunities.

A long-term, rock-solid foundation of industry support makes sure Jordan College students are equipped to take the lead in securing a positive future for the San Joaquin Valley's essential agriculture and food industries.

To be an essential part of the Fresno State agriculture support team, contact:

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Campus Farm Opportunities for Support

Beef Unit

- Mixer Wagon (one each for Beef and Dairy Units)
- RTV type vehicle
- Steamed rolled corn (Beef and Dairy Unit), 24T/6 per year
- Molasses mix (Beef and Dairy Unit) 12T/3 per year

Dairy Unit

- Robotic milking system (2 robots)
- Infrastructure for robotic milking system
- Milk tank plate cooler
- Utility tractor with rotary free stall rake, feed pusher and 3 point
- Robotic automated feeding mixer
- 2-concrete w/ asphalt pads for silage
- 150 Free stalls for the main dairy barn and robotic catch pens
- Robotic feed pusher
- 4-robotic cow brush system
- Front loader or equivalent
- Dairy rotary corral rake
- Aqua cow rise system
- Concrete and rebar to rebuild feed bunks
- Free stall filler
- RTV with dump bed
- Canola meal and transportation, 24T/ 6 per year
- Milk and dry cow quality alfalfa and transportation, 24T/10 per year
- Almond shells for bedding and transportation, 20T/10 per year

Meats Laboratory

- New facility for ready-to eat processing and packaging
- Refrigerated delivery van
- Roll stock packaging machine
- Brine injector
- Automatic clipper
- 1 shipping container (storage)

Center for Irrigation Technology

- 2-Shipping containers (storage)

Field Crops

- Bale wagon (3 string bales)
- 180-190 HP Tractor with MFWD
- High crops sprayer
- Tri-plane or land plane

General Farm

- Replacement greenhouse for horticulture program
- Irrigation pump for almond, pistachio and field crops
- 2-Class 7 field forklifts 4,000-5,000lb. capacity for loading fruit bins etc. in field conditions
- Class 4 forklift with pneumatic tires - 5,000lb. capacity
- Class 4 forklift with pneumatic tires - 3,500lb. capacity
- Variable rate gypsum /compost spreader
- 3-50 to 60 HP utility tractors
- 3-30 HP utility tractors
- 120 HP tractor with creeper gear or IVT
- 3-Pickup trucks
- 3-RTV type field vehicles

Orchard

- 36 acres pistachio planting plus 5 years establishment costs - **DONATED**
- 35 acres almond planting - **DONATED**
- 2 years establishment costs FOR 35 acres of almonds
- Almond tree shaker - **DONATED**
- Pistachio harvest equipment
- Field elevator for almond harvesting
- 2-90 to 100 HP orchard/vineyard tractor (4 wheel drive)
- Drip irrigation system for 20-80 acres of field crops
- Rototiller 14 feet
- Herbicide sprayer
- Skirter for olive orchard
- Hedging topping machine

Vineyard

- 7 acres wine grape planting plus 3 years establishment costs
- 7 acres table grape planting plus 3 years of establishment costs
- Table grape and wine grape vineyard irrigation systems automation
- 1 pair cane cutters

Creamery

- 300 gallon processing tank
- Bag filler for ice cream mix
- Powder mixer - **DONATED**
- Rotary filler and lidder for ice cream containers - **DONATED**
- Milk cooler for the pasteurizer
- Creamery tanker (500-600 gallons) - **DONATED**
- 1.25 pallets/year nonfat dry milk, low-heat, grade A
- Cheese vat to enable small-batch process, to be used in Food Processing program as well - **DONATED**

Gibson Farm Market

- 2-Shipping containers for storage
- Canopy system for containers for outside eating area; events; shade during corn season, etc.
- Solar panels system

Orchard/Field Crops

- Nitrogen Fert. (UN32) 20K gals/year
- Potassium Fert. (KTS) 2K gals/year
- Calcium Fert. (CATS) 2K gals/year
- Gypsum, 1,000T/year
- Drip irrigation system for 20-80 acres of field crops

Poultry Unit

- Shipping container and canopy system (storage and shade)

Swine Unit

- Feed mixing station - permanent or mobile (i.e. a PTO driven feed mill)
- Environmentally controlled gestation unit
- Precognicator ultrasound for early detection of pregnancy in sows

Winery

- Replacement wine tank cleaner
- 180 degree hot water system and piping for sanitizing winery, tanks and barrels