Food Processing Extension and Research Program

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School of Food Science

WASHINGTON STATE UNIVERSITY

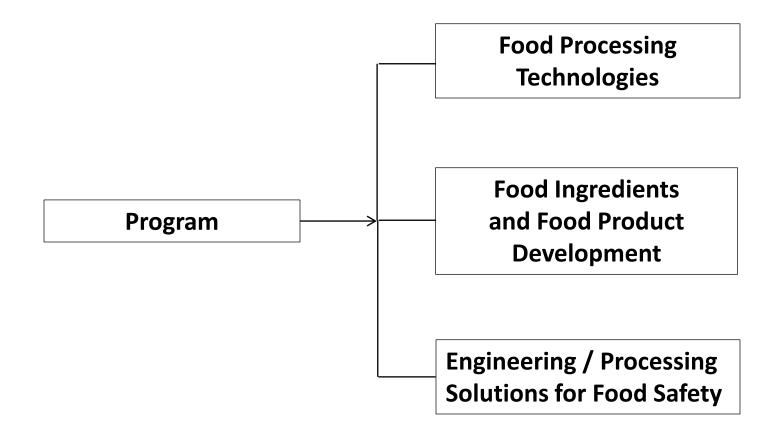
Go Cougs!

Program

"Value-added processing of the agricultural outputs to create safe and high-quality profitable food products"

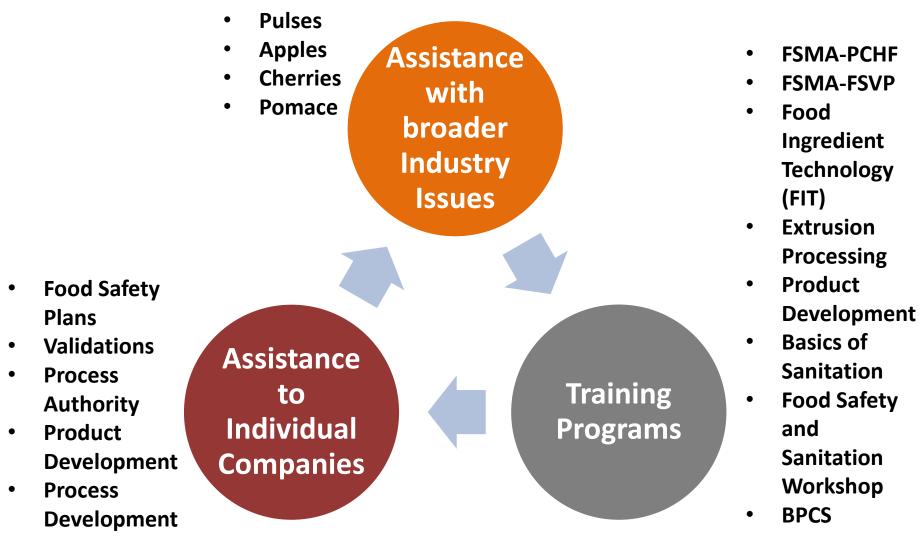
<u>Vision</u>: To build a sustainable integrated extension and research program, addressing the technical issues in the value-added processing of the agricultural outputs of the state of Washington, the Pacific Northwest region, and the Nation.

Integrated Extension & Research Processing Program



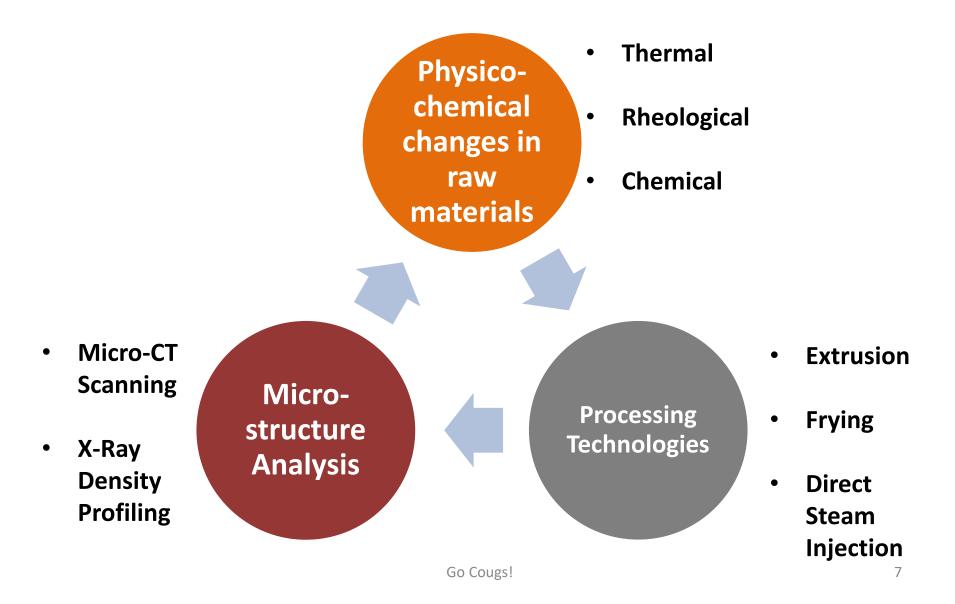
Extension Program

Extension Program



Research Program

Research Program



Process Technologies



Extrusion Program

Research

- Pulses
- Waxy Wheat
- Quinoa
- Pomace
- Wood Fiber
- Plant-based meats

• Others



Teaching

- Hands on Learning
- Industry Exposure
- Guest Lectures
- Live Demo Experiences at the IFT Annual Meeting Go Cougs!

Extension

- Short Course
- Assistance to Industry
- Assistance to Ag Commodity Groups
- National and International

WSU State-of-Art Extrusion Laboratory



- Twin-Screw Co-rotating Parallel
- Single Screw
- Twin-Screw Counterrotating Parallel
- Multiple Die Systems
- HMEC Cooling Die System
- Die Face Cutters
- Belt Conveyor

WSU State-of-Art Extrusion Laboratory



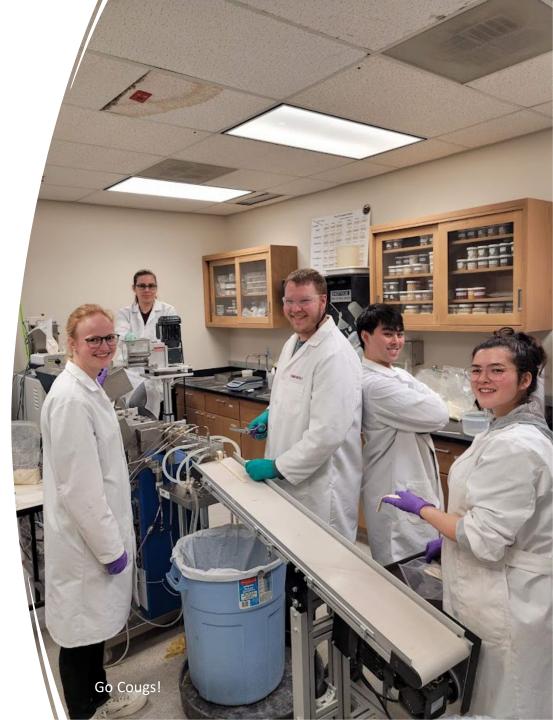
High Moisture Meat Analog Extrusion System



Extrusion Processing Program

USDA – AFRI Award # 2022-67017-36596
2022 to 2025
Proteins for Plant Based Meat Analogs

 USDA – AFRI Award # 2017-07669
 2018 to 2022
 Interactions between Fiber and Starch during Extrusion
 (High Fiber Puffed Products)







Thank You



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