A Regional Dairy Foods Research Center

- **Mission:** To provide human capital to foster innovation in the dairy foods industry in the Western region.

- **Imperative Strategy:** We must provide a continuous flow of students involved in innovative dairy food research.

- **Ideal:** We constantly surprise and delight our sponsors with innovative dairy food research and education.

- **Values:**
  - Dairy Foods Research – Make a Difference –
  - Work Together – Students are our Future –
Foundation of Dairy Research

• University professors affiliated with WDC
  – food science, engineering, nutrition, microbiology
• Knowledge and expertise in various fields relevant to dairy foods.
• Provides manpower to supervise student research and generate innovative ideas.
• Motivation
  – funding for MS and PhD student stipend support.
  – funding for research involving dairy foods
• What are our resources?
• What is most important to the university?
• What is most important to the dairy industry?

• What is our common ground?
• What thing is most important to both the university and the dairy industry?
Human Capital:

- the collective skills, knowledge, or other intangible assets of individuals that can be used to create economic value for the individuals, their employers, or their community:
- *Education is an investment in human capital that pays off in terms of higher productivity.*

- [http://www.dictionary.com](http://www.dictionary.com)
BUILD Dairy: Concept

Building
University
Industry linkages through
Learning and
Discovery
BUILD Dairy: Concept

WHAT ARE THESE LINKAGES

- Research that is relevant to the dairy industry.
- Students learning about dairy processing
- Industry interaction and input with students and faculty.
- Student interaction with industry through internships
- Students report on a regular basis to industry sponsors.
- Industry sponsorship of student research.
- Opportunities for future hiring.
BUILD Dairy: Concept

Mission

• To foster participation and success by students in research that can lead to employment in the dairy manufacturing industry and at universities in the United States.

• Increase the pool of graduates with knowledge of dairy technology

• Develop leadership qualities among students who understand of dairy manufacturing and technology.
BUILD Dairy: Concept

Building a Pipeline

Dairy Industry Technical Advisory Committee provides guidance

Undergrad. Research Experiences in Dairy Foods
Masters Research Projects
Internships
PhD Research

Filling the Future need for more technology innovation people in the Dairy Industry and at universities in the U.S.A.

Over 10 years generate:

100 Undergraduate experiences to build interest in MS studies.
75 MS Graduates with experience and interest in dairy
15 PhD Graduates with experience and interest in dairy
Western Dairy Center - BUILD Dairy Program 2016

Affiliated Universities
- Utah State University
- Weber State University
- Brigham Young University
- University of Idaho
- Washington State University
- Oregon State University
- Texas A&M University

Areas of Expertise
- Dairy Proteins
- Muscle Biochemistry
- Dairy Microbiology
- Milk fat & Bioactives
- Lipids & Sensory
- Dairy Food Biostructure
- Dairy Technology
- Cheese Microbiology
- Microbiology
- Food Technology
- Food Texture
- Dairy Technology
- Gut Health

Professors
- Marie Walsh
- Chuck Carpenter
- Jeff Broadbent
- Robert Ward
- Silvana Martini
- Almut Vollmer
- Donald McMahon
- Craig Oberg
- Michele Culumber
- Michael Dunn
- Helen Joyner
- Lisbeth Goddik
- Guiliana Noratto

Students
- MS Student
- PhD Student
- MS Student
- PhD Student
- MS Student
- PhD Student
- MS Student
- MS Student
- MS Student
- PhD Student
- PhD Student

Cooperating Researchers & Adjunct Faculty
- MaryAnne Drake
- NCSU
- David Everett
- Cal Poly
- Nabil Youssef
- Randall Thunell
- Wayne Geilman
- Allen Sayler

Western Dairy Center director: Donald McMahon
BUILD Dairy program coordinator: Kimberly Rasmussen
BUILD Dairy Progress

1. Human capital has been developed because of the BUILD Dairy program since it started in 2014

2. Sponsorship from Glanbia Foods and the Idaho Dairy Commission

3. To continue to fill this pipeline of human capital requires increased sponsorship from the dairy industry.