



BE THE INNOVATOR



BE THE DIFFERENCE MAKER



BE THE HEALER



BE THE PROBLEM SOLVER



Welcome to Montana Tech Sept 13, 2017

Montana Tech, through exemplary undergraduate and graduate education, workforce development, research, and service, builds on a strong heritage in engineering, science, and technology that blends theory with practice in meeting the changing needs of society and the responsible development and use of natural resources.



BE THE TRAILBLAZER



BE THE PRODUCER



BE THE LEADER



BE THE SOLUTION

MontanaTech

Montana Tech is glad you're here!

- We are proud of our institution
 - Top University for advancing America's Economic Progress (Edsmart.org)
 - Social Mobility Index (SMI) – from Nerd Scholar - compares the extent US colleges and universities graduate students from low-income economic backgrounds into promising careers
- Later... You will hear from our Community
- Take a tour of our Campus
 - NRRC – Natural Resource Research Center opens for classes – in August 2017
 - Please come and celebrate with us tonight – reception, tours
 - Broke ground on Living Learning Center/Student Success Center – August 2017
 - Parking is a tough – any problems – see Victoria Pagan
- But now WIRE
 - Workgroup for Institutional Realignment for Excellence

Montana Tech – Special Focus

Sept. 2016
BOR renewed
discussion of
Roles &
Mission

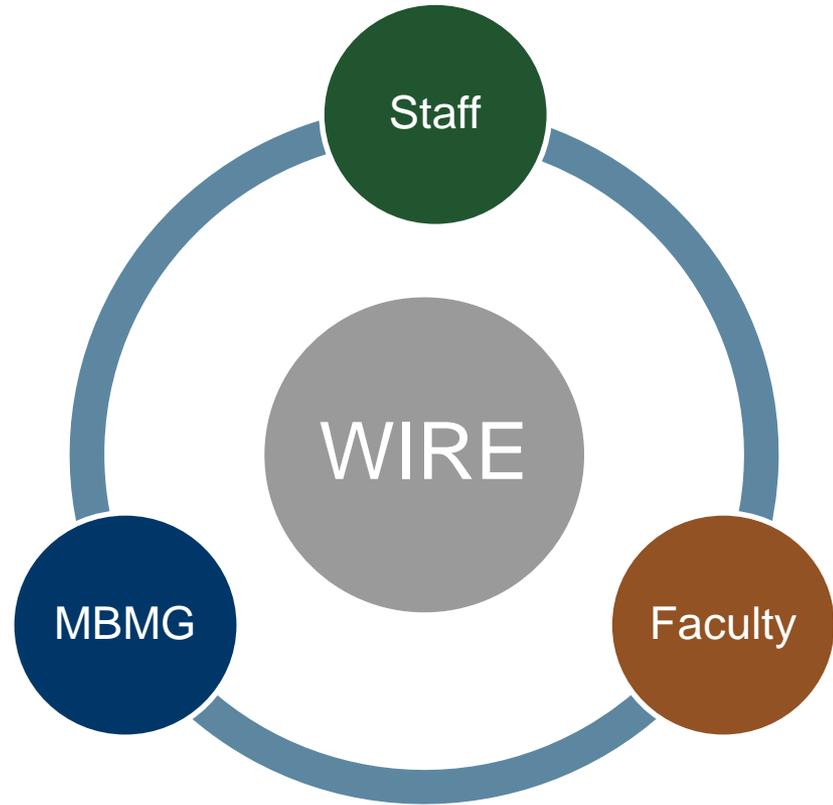
April 2017
WIRE begins
bi-weekly
meetings &
Campus
listening
sessions

Sept. 2017
Relationship
to MUS
Strategic Plan

March 2017
Montana Tech
formed WIRE

May 2017
BOR
designated
Montana Tech
as **Special
Focus**

WIRE Context – important...



Special Focus Conversation

- **At least 75% of our students remain in engineering, science, technology, and health programs**
- **At least 50% of our students major in engineering**
- **A robust portfolio of graduate programs that aligns with our mission**
- **A strong culture of applied research, scholarship, and graduate education**
- **Exceptional liberal arts, humanities, and social sciences programs thrive so as to complement and lend context to the technological strengths of the university**
- **Integrated two year, four year, and graduate programs**
- **Through exemplary undergraduate and graduate education our students are prepared to enter the workforce and/or post-bac professional programs.**

At least 75% of our students remain in engineering, science, technology, and health programs

- ***We will build on our strong heritage in engineering, science, and technology education*** (Montana Tech Mission Statement)

Montana Tech, through exemplary undergraduate and graduate education, workforce development, research, and service, builds on a strong heritage in engineering, science, and technology that blends theory with practice in meeting the changing needs of society and the responsible development and use of natural resources.

- **MUS Strategic Plan Goal 2**

- Areas of emphasis include agriculture, natural resources and energy, materials and manufacturing, health and biomedical sciences, and technology and computer science
- Montana projected to have *massive workforce shortages in health fields*
- **Objective 2.3.2** – Increase graduate degree production, maintaining a strong concentration in science, technology, engineering, and math (STEM) fields

- At least 50% of our students major in engineering

- We will build on our *strong heritage in engineering, science, and technology*. (Montana Tech Mission Statement)

- **Goal 2 of MUS Strategic Plan**

- Areas of emphasis include agriculture, natural resources and energy, materials and manufacturing, health and biomedical sciences, and technology and computer science.

- At the heart of our school is Engineering.

- We are strongly committed *to all educational aspects around the responsible use of natural resources*. (Montana Tech Mission Statement)

- We support a **comprehensive** set of majors that support natural resources

- ***MUS Strategic Plan Goal 2: Workforce & Economic Development***

- Assist in the expansion and improvement of the state's economy through the development of high value jobs...

We have a robust portfolio of graduate programs aligned with our mission

- **Montana Tech offers MS and PhD programs within our mission where **20% of our students** are enrolled at the graduate level**
 - **Goal 2 MUS Strategic Plan**
 - Expand graduate education capacity and opportunities in order to increase educational attainment of Montanans, fuel economic development, grow the research and development enterprise, and contribute to the cultural and social fabric of Montana and the region.
- **Montana Tech collaborates Statewide and beyond to offer nationally competitive graduate programs**
 - ***Goal 3: Efficiency & Effectiveness***
 - Improve institutional and system efficiency and effectiveness

A strong culture of applied research, scholarship, and graduate education

- Faculty are active in developing relevant research and scholarship programs
- **MUS Strategic Plan**
 - Objective 2.2.1 Increase research & development receipts and expenditures
 - Objective 2.2.1 Increase technology licenses with Montana businesses
- Faculty work in multi-disciplinary teams to help solve societal challenges
- Industry directly benefits from Montana Tech's for cutting edge research
- **MUS Strategic Plan**
 - MUS research enterprise also builds partnerships with communities, businesses, and other educational entities to help align science education and research with pressing social and economic challenges

Exceptional liberal arts, humanities, and social sciences programs thrive so as to complement and lend context to the technological strengths of the university

- **Our student experience *blends theory with practice in meeting the changing needs of society*** (Montana Tech Mission Statement)
 - **From MUS Strategic Plan Goal 2**
 - ... helping align science education and research with pressing social and economic challenges...

Through exemplary undergraduate and graduate education our students are prepared to enter the workforce and/or post-bac professional programs

- **We provide a “hands on” experience resulting in career ready graduates**
 - **Objective 2.1.1** Increase degrees and certificates awarded in high-demand occupational fields and Increase job placement rates
 - The goal is to train more than 9,000 Montanans to fill good-paying jobs in the rapidly growing advanced manufacturing and energy industries. **(MUS Goal 2)**
- **Our students will have a strong connection with our industry partners through sponsored projects and internships**
 - Solving Montana problems with Montana solutions **(MUS Goal 2)**
- **All graduates engage in relevant and real problem solving experiences starting in the first year and culminating in a capstone project**
 - Preparing students for success in life through quality higher education. **(MUS Goal 1)**

Integrated two year, four year, and graduate programs

- ***Programs are vertically integrated – as One Montana Tech***
- ***Goal 1: Access & Affordability*** – Increase the overall educational attainment of Montanans through increased participation, retention and completion rates in the Montana University System.
- ***Objective 3.3.1*** Improve articulation and transferability among all 2-year and 4- year institutions, including community colleges and tribal colleges.
- ***MUS Goal 1 – abbreviated - Two-Year College Access:*** increase access and participation at two year institutions by improving educational opportunities and promoting two-year education as a low-cost, viable entry point to high demand occupations and/or to four-year degrees.

Vibrant topics that are under discussion

- **The name of our Institution**
- **Additional doctoral and Masters programs within Mission**
- **Collaborative/online graduate programs**
- **Peer and aspirational institutions – who are they really?**
 - **Tuition and fee setting**
 - **Salaries**
 - **Faculty expectations**
 - **Admission standards and accessibility**
- **Highlands College in the context of Special Focus**
- **Montana Tech organizational structure in the context of Special Focus.**

Final Remarks

- The campus community is engaged in the process
- These are interesting times with more to come
- We want your feedback and questions

