CARBON ORE, RARE EARTH AND CRITICAL MINERAL

# WORKFORCE TRAINING: ballenges. Strategies. and fartnerships

### LIVE WEBINAR

# TUESDAY, SEPTEMBER 27, 2022 10:00 AM - 12:00 PM (MT)



Amy Murphy
Dean of Outreach and Workforce
Development
Western Wyoming Community
College



Anthony Armaly
Federal Coordinator of the
Regional Workforce Initiative
National Energy Technology
Laboratory



Stephanie Salazar
Executive Director
Upton Economic Development
Board



Shaye Moon
Business Training and Support Unit
Program Manager
Wyoming Department of
Workforce Services



Sharon Geissler
Workforce Development Training
Fund Lead
Wyoming Department of
Workforce Services



Ivie Moore
Apprenticeship State Expansion
Lead
Wyoming Department of
Workforce Services



# NETL Regional Workforce Initiative (NETL RWFI)



# NETL RWFI Mission Statement







# Measuring Our Impact - People First

Key Metrics are Levels of Engagement and Outreach



individual stakeholders

institutions and organizations represented

800+ 400+ 1100+ 290+

registrants to the **NETL RWFI Webinar** Series

subscribed to the **NETL RWFI e-Note** Monthly Newsletter

Catalyzed over 1M in energy/advanced manufacturing workforce & economic development funding



## The U.S. Skilled Technical Workforce



### Expected Future Challenges to the U.S. Skilled Technical Workforce

Significant shortfall of nearly

3.4 million

skilled technical workers by 2022\*

### **RECOMMENDATION**

Build national and regional coalitions and partnerships of stakeholders to address skills gaps and collaborate to harness shared resources



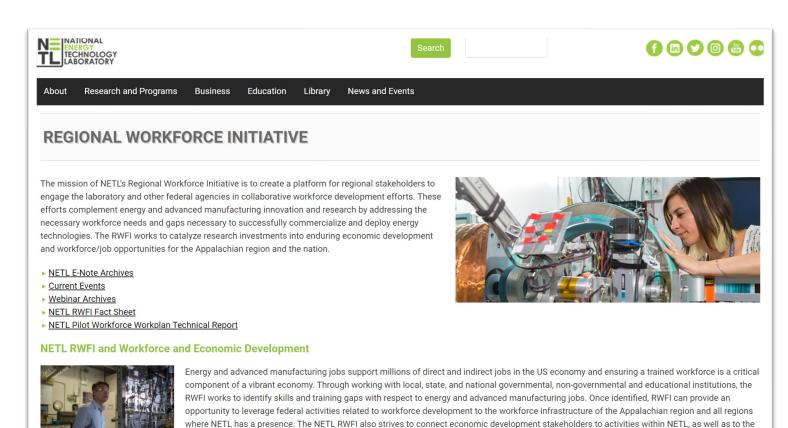
# Consistent Engagement & Output

**Key Activities of NETL RWFI** 

#### **Outreach Tools**



- Webinars
- Networking (meetings, lab tours, site visits)
- E-note (monthly) Webinars Archive
- RWFI website and archives
- www.netl.doe/gov/rwfi



Department of Energy and other federal agencies that support economic development activities focused on energy and advanced manufacturing.



# Regional in Focus, National in Reach

### 400+ Organizations Representing Multiple Stakeholder Groups



# Stakeholder groups include:

- Economic Development Organizations
- Federal, State, & Local Governments
- Community Colleges & Universities
- Philanthropic Organizations
- National Laboratories
- Workforce & Other NGOs
- Industry

Appalachian Regional Commission

America Makes

Belmont College

**TEAM Consortium** 

Benedum Foundation

**BRITE Energy Innovators** 

Catalyst Connection

Carnegie Mellon University

Claude Worthington Benedum Foundation

**Energy Futures Initiative** 

National Association of Workforce Boards

Coalfield Development Corporation

Community College of Allegheny College

Westmoreland Community College

PA Department of Economic Development

University of Pittsburgh

Siemens Corporation

Eastern Community College West Virginia

E2 Network

IACMI

ARM consortium

IN-2-Market, Inc.

Manufacturing Extension

Partnership

West Virginia University

WVU Industrial Extension/MEP

Allegheny Conference

Charleston Area Alliance

Electric Power Research Initiative

Pittsburgh Regional Alliance

Robert C. Byrd Institute

Oak Ridge National Laboratories

West Virginia University



# Key Outcomes to Date







# R-AME Innovation Group

### **NETL RWFI Advanced Manufacturing & Energy (R-AME)**



- 5 themes/questions
- Engagement platform for region
- Network for regional entrepreneurship and innovation
- Best practices in the issue areas
- Regional funding opportunities

### **REGIONAL FOCUS**

Supporting innovation, entrepreneurship, and economic development



# Workforce Training 1.0

### **Advanced Welding Workforce Initiative**



- **1st** workforce training funding effort, worked with DOE & ARC to structure
- \$1M award for Advanced Welding
- 5 awardees across Appalachia
- More women than ever enrolled in 3 of the 5 tech schools





## NETL RWFI Workforce Readiness Plan

#### NATIONAL ENERGY TECHNOLOGY LABORATORY

### **Pilot Program**

- ✓ Available and accessible training programs
- Ongoing or planned collaborations with education and training providers
- ✓ Identify necessary certifications or other educational attainment involved in technology/activity
- ✓ Identify Economically Distressed Communities or state or federal designated Opportunity Zones or other geographically defined empowerment zones where this activity may occur

Originated from conversations with stakeholders and through ARC workshop participation (2017-18)

### Prevalent questions were:

- What are the occupations needed?
- What skills/education is required for those occupations? "Future casting"

NETL technologies 3-5 years from commercialization

Effort to understand occupations and skills necessary for the present and the future

DOE now requires a statement of job creation on FOAs



# Workforce Readiness Plan Database



Job/Career Field Name	Skills Needed	Education Requirements	Availability of Training Programs	Any Other Relevant Items Provided?
	<ul> <li>Efficiently extract large scale complex business data (time series data, structured/unstructured) from various data sources and prepare them for data analytics.</li> <li>Partner with product experts, leverage common opensource machine learning/deep learning packages for identifying data patterns/trends or building predictive models.</li> </ul>	<ul> <li>Undergraduate degree in Data S cience, C omputer S cience, Math, or S tatistics.</li> <li>For candidates who hold an engineering degree, we require candidates have taken data science classes already.</li> </ul>	Yes	
Big Data Programmer/Analyst	<ul> <li>Deploy solutions to business units using software technologies to generate measurable values for businesses.</li> <li>Grasp the application of the latest machine learning and artificial intelligence open-source packages, cloud, and distributed computing technologies to ensure the best technologies are implemented to meet businesses' data challenges.</li> </ul>	• 7 years of experiences with a minimum of 2 years experiences in extracting the data, using common classification or regression open-source packages through R or Python.		
G e o logists	<ul> <li>Geologists with a passion for subsurface materials and skillsets such as geologic characterization, well log and core analysis, petrophysical calculations, geostatistics, model development, and field work are needed to quantify rock property estimations and integrate subsurface interpretations using different datasets.</li> </ul>	• Undergraduate & Professional	Yes	



### Pilot Conclusions

### Report Findings: www.netl.doe.gov/rwfi

- ✓ Skilled technical workforce is essential
- ✓ Technical workforce occupations are high paying and in-demand
- Energy and Advanced Manufacturing industries are rapidly evolving towards high skilled and increased experience
- ✓ The Workforce Workplan is an effective tool in identifying emerging skills and occupations in energy industries = a skills/occupations early warning system





# 2021 NETL WORKFORCE READINESS PLAN



January 11, **2022** 

DOE/NETL-2022/3726



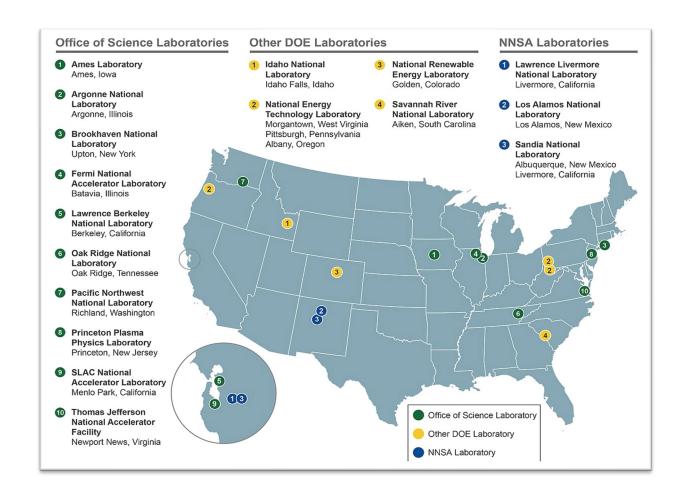


# Opportunity?

Report Findings: www.netl.doe.gov/rwfi



- What if the Workforce Readiness Plan could be implemented at other labs?
- Indirect benefits and support of occupations and skills being supported by DOE funding
- Clearer picture of future industry sector needs





## Conclusions

### Let's Connect, Communicate and Collaborate!

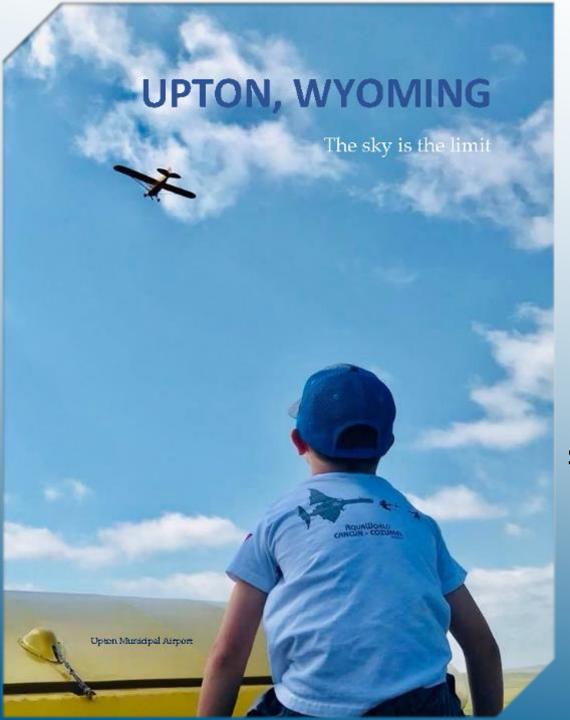
NATIONAL ENERGY TECHNOLOGY LABORATORY

- NETL RWFI relies on our being consistent, communicative, and collaborative with stakeholders
- Substantive engagement and results – Webinars, E-Note, R-AME, Workforce Readiness Pilot, NETL/ARC AWWI









ATTRACTING, DEVELOPING & RETAINING

A SKILLED WORKFORCE IN

UPTON, WYOMING

Supporting Developing U.S. Industries - Carbon Ore, Rare Earth, and Critical Minerals



A rail-served business park, FAA municipal airport, regional high school sports facility, 9-hole golf course, regional competition gun club facility — these are *typical amenities* in many communities, but **Upton volunteers** build, improve, maintain and manage theirs. Take a closer look at the <u>Town of Upton</u> and you will see that this small town is *anything but typical!* 

**POPULATION** 1,100

**INDUSTRIES** Transportation & logistics, energy, mining, manufacturing, ranching, and *coming soon* - rare earth

elements.

**LOCATION** The beautiful Black Hills of northeast Wyoming at US Hwy 16 and Hwy 116, 15 miles southeast of

Interstate 90, and 29 miles northwest of Hwy 85, the *Heartland Express* from Canada to Mexico.

#### **Rare Earth Elements**

**Upton, Wyoming** is home to *Rare Element Resources* (RER), which is developing a demonstration plant for processing rare earth elements at the **Tiger Transfer** business park, with access to BNSF dual mainline rail. The project is expected to last 3 ½ years, and a commercial plant will be designed during demonstration plant operations. Property adjacent to Tiger Transfer, which is accessible to rail, has been secured by RER for subsequent development of a commercial plant. The Upton Economic Development Board (UEDB) and Tiger Transfer are working together to achieve the vision for a Rare Earth Elements Industry Center in Upton.



# Facing the Challenge of Growing a Skilled Workforce in a Rural Community

Attracting, developing and retaining a skilled workforce is a challenge faced by almost every community across the United States. Rural communities can face even more challenges, such as:

- 1. Fewer local employers offering well-paying jobs with benefits
- 2. Longer commutes to jobs
- 3. Access to education and training
- 4. Available lodging and housing
- 5. Affordable daycare
- 6. Healthcare
- 7. Lifestyle amenities
- 8. Industry sector volatility

# Strategic Planning: Addressing the Challenge in Upton, Wyoming

- 1. Who are workers and what do they need?
- 2. What resources and assets are needed in Upton, WY to complement what is already available in Northeastern Wyoming?
- 3. How do we promote and deliver existing resources to employers and workers?
- 4. What partnerships are key to creating and delivering education and training?
- 5. Why it is important to communicate and promote industry activities and advances, *Locally, Regionally and Nationally*, to workers and

### prospective workers --

- Who have transferrable skills
- Who attend college and university in relevant degree programs
- K-12 students
- Unemployed



### **WORKFORCE**

### WY WE DO DISTANCE -- FOR GOOD JOBS!

COMMUTING IS A WAY OF LIFE IN WYOMING AND SOUTH DAKOTA, AND EMPLOYERS ACCESS A SIZEABLE WORKFORCE.

Upton Workforce Area Population – 244,448			
Workforce Area: NE Wyoming + SE South Dakota			
Northeast Wyoming	Southwest South Dakota		
Cities: Gillette, Moorcroft,	Cities: Rapid City, Summerset, Sturgis,		
Sundance, Newcastle, Upton	Spearfish, Belle Fourche, Lead-Deadwood,		
	Custer		
Northeast Counties: Campbell	Southwest Counties: Pennington (109,222),		
(47,026), Crook (7,181), Weston	Meade (29,852), Lawrence (25,768), Butte		
(6,838)	(10,243), Custer (8,318)		



# WORKERS – WHO ARE THEY, AND WHERE ARE THEY?

Classrooms – K-12, colleges, technical

colleges, universities

Seniors

**Veterans** 

Honor camps

Retired military

At-home parents

Home based workers

Remote workers

Part-time workers

Out of state looking for a better quality of life





# **UPTON'S PRIMARY EMPLOYMENT CENTER**

121 WEST MERINO STREET, UPTON, WY 82730

BNSF CERTIFIED PREMIER TRANSLOAD FACILITY

- Zoned Industrial
- ✓ Operated since 2006 under current management
- Located on BNSF Railway's (Black Hills Sub) double mainline track with 3 mainline switches
- Only rail park located on the BNSF double mainline route through Wyoming
- 44,000 feet of private rail and constant construction of new track
- Acres of "shovel ready" land for building development, outdoor storage, or rail
- Over 1,000 acres adjacent greenfield land available for expansion
- One-stop for transloading, manufacturing and distribution
- Full-service transloading, and tailored solutions to meet customer needs



# TIGER TRANSFER, LLC - UPTON'S LOGISTICS CENTER



### **TRANSPORTATION**

...Access to work, live and play



### **HIGHWAYS TO RAIL**

Tiger Transfer, LLC and Black Hills West are located at Buffalo Creek Road on US 16, 1.6 miles west of WY Hwy 116 S with access to:

- Interstate 90, at Moorcroft, WY west 15 miles on US 16
- Interstate 90, at Hwy 585 Sundance, WY -- north 28 miles on Hwy 116 N.
- State Highway 85, at Newcastle, WY 29 miles southeast on US 16
- Transportation to and from the park is accessed via the Buffalo Creek 20 and 20A county roads within the park. Tiger Transfer has several miles of all season, gravel roads in place for heavy trucks and other vehicle traffic.

## **TRANSPORTATION**

...For business and recreation



### **General Aviation**

Upton Municipal Airport, Upton, WY – at the south boundary of Tiger Transfer Mondell Field Airport, Newcastle, WY – 27 miles

### Commercial

Northeast Wyoming Regional Airport, Gillette, WY – 45 miles Rapid City Regional Airport, Rapid City, SD – 78 miles





# AFFORDABLE DAYCARE IN UPTON

Weston County Children's Center, Upton is subsidized by the State of Wyoming, Upton Economic Development Board and other nonprofit agencies to support attendance by pre-school children who would otherwise be unable to attend school or daycare.

**Little Safari Daycare** is a private daycare facility that opened in 2020, and is reasonably priced.

Both Facilities have waiting lists.

### UPTON STUDIES - A PLACE TO VISIT AND LIVE

The Upton Economic Development Board (UEDB) developed a <u>strategic plan</u>, had a <u>hotel feasibility</u> <u>study</u> prepared, and then had <u>two USDA Rural Development-funded feasibility studies</u> created for implementation.

2019 - 2022 Strategic Plan, by UEDB

2019 Hotel feasibility study, by Core Distinction Group





2020 <u>Upton Futures</u>, by Ayres Associates; and <u>Black Hills West Master Plan</u>, by Wyss Associates, Inc. – small business and workforce development studies to support economic growth in Upton

2021 <u>Upton Development Opportunities</u>, by Wyss Associates, Inc. opportunities and conceptual plans for housing and workforce development



# Workforce Housing – a priority





Housing concepts - single & multi-family

# UPTON HOUSING TASK FORCE

During the 2020 USDA RD-funded Feasibility Study, much of the discussion surrounding workforce development centered on the availability of reasonable housing opportunities.

Since then, Upton formed a *Housing Task*Force to develop a working plan for new housing development, with workforce housing at the top of the list.

### BLACK HILLS WEST

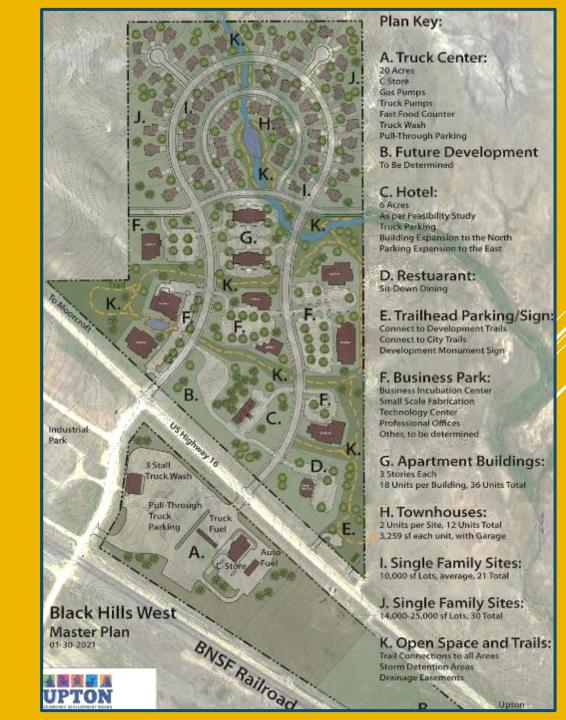
a Mixed-Use Planned Development for work, life and play

### **Black Hills West South**

- 36.27 acres Zoned Industrial
- Planned for semi-truck and rail support services
- Located on the north boundary of Tiger Transfer, at the southeast corner of US Hwy 16 and Buffalo Creek Road in Upton, WY
- Utilities are onsite

### **Black Hills West North**

- 67.68 acres planned Mixed-Use Development
- Light industrial, commercial, and multi and single family housing
- Located at US Hwy 16 and N Buffalo Creek Road in Upton, Wyoming
- Utilities are onsite



## **EDUCATION & TRAINING**



### **Weston County School District #7**

K-12 in Upton is ranked 4th out of 48 Districts in Wyoming in Cohort Graduation Rate, January 2022

The district emphasizes a Personalized Learning Model of Instruction to meet the needs of all students, supported with a low student teacher ratio.

Upton High School provides Career and Technical Education Tracks in Industrial Technology (Woods & Welding), Family and Consumer Science, Agriculture, and Health Careers.

College accredited courses are available to freshman through senior high school students.

Graduates in the last four years include attendees of the United States Military Academy at West Point, the University of Notre Dame, and a University of Wyoming Trustees Scholar.

WCSD#7 is the recipient of \$875,000 in grant money to establish a 21st Century Community Learning Center program for students Pre-K through 5th grade, and for after school programming.

Beyond academics and career development, WCSD#7 offers many extra-curricular activities for students including statewide robotics competitions, and the Future Business Leaders of America, Family Career and Community Leaders of America, and Future Farmers of America clubs.

WCSD#7 is truly the center of the community!

## **EDUCATION & TRAINING**













### **Higher Education**

University of Wyoming – Laramie, WY
Eastern Wyoming College – Torrington, WY
Gillette College – Gillette, WY
Sheridan College – Sheridan, WY
Black Hills State University – Spearfish, SD
South Dakota School of Mines and Technology – Rapid City, SD
Sanford Underground Research Facility – International science laboratory in Lead, SD

<u>Technical & Vocational Education</u>
Mitchell Technical College – Mitchell, SD
WyoTech – Laramie, WY
Western Dakota Technical College – Rapid City, SD







### **HEALTHCARE**



- Monument Health Upton Clinic
  - Weston County Hospital, Newcastle, WY
    - Campbell County Memorial Hospital, Gillette, WY
      - Black Hills Urgent Care, Gillette, WY
        - Monument Health Hospital and Clinics,
           Spearfish, SD
          - Medical Center of Spearfish, SD

# Collaboration + Commitment + Expertise + Innovation & Inspiration



Conceptual Business Innovation Center



Workforce Training is a Team Sport, on a different field



Upton High School Patriot Stadium

Schiller Baseball Complex

# EDUCATION & TRAINING FUNDING RESOURCES FOR STUDENTS, EMPLOYEES AND EMPLOYERS

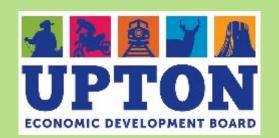


**Training Grants** 



**Scholarships** 

These are just a couple of the education and training grants utilized in Upton, WY over the past 3 ½ years.



**Scholarships and Grants** 



# WORKFORCE TRAINING GRANTS WORKSHOP FOR UPTON EMPLOYERS HELD FEBRUARY 7, 2022

50 + Employers attended the workshop

UEDB provided assistance to 12 employers, to date

Upton businesses continue to contact UEDB for assistance with the training grant applications



# **Key Partnership**

#1 Key Partnership – essential to developing a skilled and trained workforce, ready to fill positions in new and growing industries.

C-Level Business Industry Leaders: Decision Makers

And

Senior Administrators for Education Institutions: K-12, Colleges, Technical Colleges, Universities, Apprenticeship Programs

Example: Vestas opening a revitalized plant in Pueblo, CO with 1,500 retrained workers



2021 INYAN KARA ENDURO, UPTON, WY

#### YEAR-ROUND FUN & AMENITIES

UPTON IS SURROUNDED BY THE BEAUTIFUL BLACK HILLS -- DEVILS TOWER NATIONAL MONUMENT, KEYHOLE STATE PARK AND RESERVOIR, INYAN KARA MOUNTAIN, AND THUNDER BASIN NATIONAL GRASSLAND IN NORTHEAST WYOMING; AND TERRY PEAK, SPEARFISH CANYON, CUSTER STATE PARK AND DEADWOOD IN SOUTHWEST SOUTH DAKOTA. THERE ARE A VARIETY OF RECREATIONAL AND ENTERTAINMENT ACTIVITIES TO ENJOY YEAR-ROUND.



Stephanie Salazar, CEcD

**Executive Director** 

307.282.0652

director@uedb.org
310 W 2<sup>nd</sup> St, PO Box 731

Upton, WY 82730

**UEDB.ORG** 



# The Workforce Development Training Fund (WDTF)

Shaye Moon - Business Training and Support Unit Program Manager Sharon Geissler - Workforce Development Training Fund Lead Ivie Moore - State Apprenticeship Program Lead



#### **WDTF** Program Information

- Established in 1997 through legislative statute
  - Comprised of State General Funds and Unemployment Trust Fund Earnings
    - Appropriation of approximately 4 mil total per biennium
  - Funds may be used to fund workforce development programs to train, retrain or upgrade work skills for existing Wyoming workers
    - Grants can be accessed by Wyoming- based businesses and training providers in collaboration with economic development entities



#### **WDTF Grants**

#### Business Training Grants

 Available to Wyoming businesses who need a skill upgrade or re-training in their current occupations

#### • Pre-Hire Economic Development Grants

 Wyoming training entities may apply based on workforce need identified by businesses to develop an industry specific workforce when there is a shortage of skilled workers

#### Pre-Obligation Grants

 Available to economic development entities to apply with a collaborating business to incentivize relocation and/or expansion in Wyoming

#### Apprenticeship Grants

 Available to Wyoming-based sponsor(s) with U.S. DOL Office of Apprenticeship Registered Apprenticeship Programs or the partnering training provider

#### Internship Grants

 Available to Wyoming businesses and requires a structured learning experience designed to offer interns the opportunity to more fully explore career interests



#### **Engaging Wyoming's Youth**

- Partnering and collaborating with CTE Teachers/HS Counselors across Wyoming to grow industry led education (hands on training)
  - High School Youth Apprenticeship development, Pre-Apprenticeship education
- Engaging high school youth through career fairs, vendor booths, and informational sessions during class time
- Participation and involvement in various workforce groups statewide and participation with internal DWS programs to share information



#### **Contact Us**

 Shaye Moon, Business Training and Support Unit Program Manager shaye.moon@wyo.gov

 Sharon Geissler, Workforce Development Training Fund Program Lead sharon.geissler@wyo.gov

• Ivie Moore, State Apprenticeship Program Lead

ivie.moore@wyo.gov

**More information available at:** https://dws.wyo.gov/dws-division/business-training-support-unit/workforce-development-training-fund/

# Workforce Training: A Community College Perspective





### Objectives of Workforce Development

- Build talent pipelines
- Remove barriers to employment
- Expand labor force
- Support job retention & career advancement
- Prepare workforce with necessary skills
  - Job-specific, soft, and life skills
  - Current & anticipated labor needs
- Connect workers & employers
- Customized and traditional training
- Customer service approach
- Partnerships! Partnerships!!!

#### Workforce Matters...



#### Human capital is the key asset...

where developing, keeping, attracting, and maximizing the potential of people – from infanthood through elderhood – is the *community difference* maker for economic development.

# Challenge: Concern Regarding Quality & Quantity of Workforce

- Labor pipeline is changing
  - Older, highly skilled "Baby Boomers" are retiring
  - New effect of the millennial generation
- Mismatch in worker training
  - 60% of all new jobs created will require skills that only 20% of the current workforce possess
  - Flow of the labor pipeline
  - Decreased birth rates



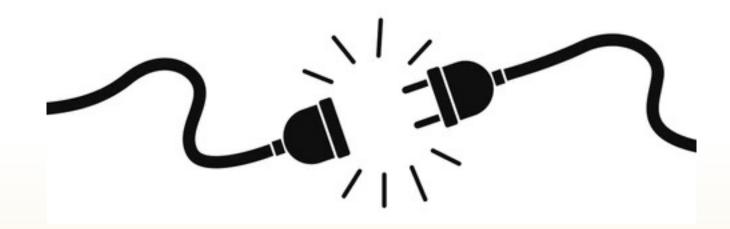
## Existing and Future Workforce

- Many young people lack hard, soft, and life skills.
- Educational achievement strongly linked to home environment and societal issues.
- Greater career counseling and coaching needed.
- Financial funding for individuals to upgrade skills or train for the in-demand skills.

## Specific Challenges for Individuals

- Displaced persons with non-transferrable skill sets
- Workforce age persons who have not participated in the workforce for a significant length of time
- People dealing with significant socioeconomic disparities
- People facing cultural barriers
- People with disabilities who wish to participate in the workforce
- Persons with criminal records
- Underemployed, unemployed due to business closures
- Geographic and mobility challenges

# What Does This Mean for Workforce Development?

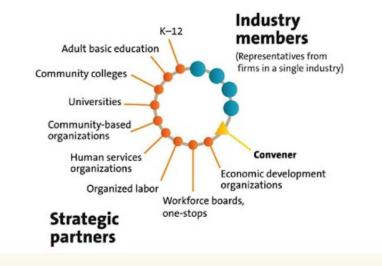


- Mismatch between jobs and workers
- Communities without a talented workforce

#### Sector Strategy Approach

#### "Sector Partnerships"

- Innovative programs link needs of targeted industry with educational and workforce development.
- Ongoing dialogue leads to trust, mutual understanding, and eventually, partnership among Workforce Boards, businesses, schools, and other regional workforce partners, such as economic development associations.



### Defining Sector Strategies

- Sector Partnerships known by many names:
  - industry partnerships
  - industry training consortiums
  - skill panels
  - regional industry strategies
  - regional cluster strategies
- Sector strategies as targeted programs to meet the needs of specific industries.



### Partnerships Provide Engagement

- Community colleges were the most frequently cited partners to conduct regular meetings on workforce development issues and convene meetings with business to align skills needs.
- Private business and Workforce Boards were other partners cited.
- Partnering with community colleges, private businesses, Workforce Boards for joint training or skills development programs.
- Partners often a source of economic development funding for conducting programs.

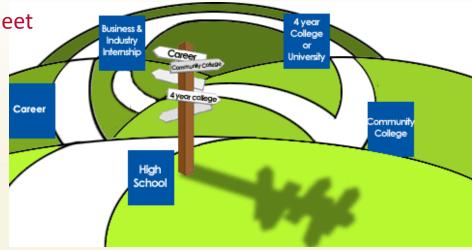


#### **Trends**

- Increased discussion about workforce development in the public and private sectors
- Greater focus on long term workforce planning and recruitment
- Proactivity from primary/secondary educational institutions in the area of workforce development
- A sense of urgency about the need for future workers
- Enhanced emphasis on vocational training and skills development
- Greater emphasis on technical training for advanced manufacturing

#### Increases in Collaboration Among Partners

- Workforce Investment Board (WIB) partnering with industry and education to provide grant funding for workforce training, internships and/or apprenticeships
- Four-year universities working with community colleges, private business and thinking outside the box
- Partnering with middle and high schools to encourage vocational training as an alternative to college – skill-based training
- Public schools being more willing to meet with businesses to align their training programs to the industry needs
- Engagement between partners



## Regionally Focused

- As sector-focused programs are started, engaging all partners across a region can be a challenge. In that case, starting small—by engaging just one or two important partners—can be a good strategy.
- Once results of this smaller program have been proven, then other partners can be engaged, thus growing the small program into a true partnership. In many of the case studies, small programs instigated by one sector partnership have grown into regional or even state programs.



## Regional Approach to Industry





- Engaging businesses in sector strategies is essential, but the focus must be on regional industry groups or clusters, rather than on individual companies.
- Building training programs around industries ensures that graduates of the programs are prepared for a range of jobs and more adaptable to industry changes.

### Seek Regional Partners



- Cast your net wide!
- Partnerships can be sought with workforce intermediaries, community organizations, faith-based organizations, business groups, industry associations, community colleges, vocational schools, social services, local governments, and worker advocacy groups such as unions.
- Strong, multilateral partnerships increase community buy-in and lead to better program design.

## Tactics for Developing Regional Sector Partnerships

- Plan for cross-jurisdictional engagement;
- Start small, prove results, and ramp up by engaging regional and/or state partners;
- Concentrate on industry, rather than individual companies; and
- Seek a broad range of partners.



## More Tactics for Developing Regional Sector Partnerships

- Identify Business Needs
- Engage Partners
- Utilize National Data Sets
- The Potential of Big Data
  - BLS. U.S. Census, and O\*Net have limitations
  - Utilize enhanced data from EMSI, ESRI, and others
  - Use data analysis to gauge workforce demand



### Workforce Development Activities

- Vocational training
- Job search assistance
- Training for the unemployed/underemployed
- Incumbent worker training
- Job programs for the disadvantaged
- Post-secondary training
- Recruitment and retention visits
- Internships and co-ops
- Apprenticeships



# Wrap-Up on Workforce Development & Training

- Build talent pipelines
- Remove barriers to employment
- Expand labor force
- Support job retention & career advancement
- Prepare workforce with necessary skills
  - Job-specific, soft, and life skills
  - Current & anticipated labor needs
- Connect workers & employers
- Customized and traditional training
- Customer service approach
- Partnerships! Partnerships!!!



# **Contact Information**

#### **Amy Murphy**

Dean, Outreach & Workforce Development amurphy@westernwyoming.edu (307) 382-1616

#### **Contact Us**

**CORE-CM Greater Green River/ Wind River Basins** 

Project PI:
Davin Bagdonas
SER Research Scientist
abags@uwyo.edu
(307) 766-6863

#### **CORE-CM Powder River Basin**

Project PI: Dr. Erin Phillips SER Project Manager ephilli8@uwyo.edu (605) 591-2712

