

ADVANCING MANUFACTURING TECHNOLOGIES











# Statewide

Advanced Manufacturing Technology Centers

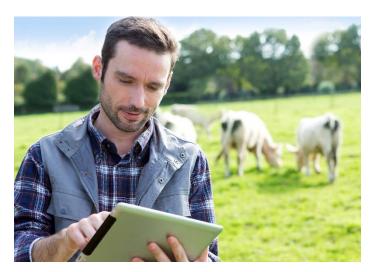


# More than \$20 million in leading-edge equipment

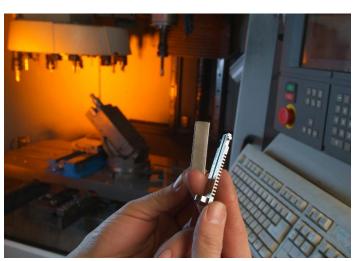
- CNC lathes & mills
- Waterjet & laser cutters
- Composites manufacturing
- 3D Printing



### **Technical Services**





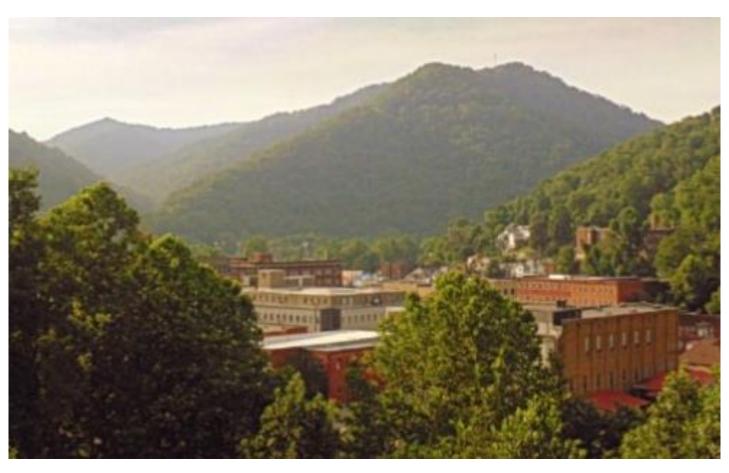




# RCBI Specialized Programs

### P.O.W.E.R. Awards for economic diversity in Appalachia

# Appalachian Hatchery



Assists manufacturers, start-ups and innovators with development of new products & markets, and delivers skills training to their employees

- Create 105 jobs
- Retain 235 jobs
- Leverage \$675,000 in private investment







### Workforce Training

- Machinist/CNC
- Welding
- Robotics
- 3D Printing
- Blueprint Reading
- Advanced Software Training/CAD/CAM
- Material Analysis
- New Market Development
- Quality Implementation









# Apprenticeship Partnership





Apprenticeship **USA** 



Registering an apprentice program is too bureaucratic and difficult.



Apprenticeship programs are just for the construction and skilled craft occupations.



Apprenticeships are just for the big companies.



If I train apprentices, they will just leave.



If I become an apprentice, I will have to make a choice between work and college.





Apprenticeships require a large number of employees

Apprenticeships come in all sizes, from as few as one employee to hundreds







# Apprenticeship works!

### At a glance

RCBI was awarded \$4.9 million to fund the National Advanced Manufacturing Apprenticeship Partnership, Apprenticeship Works.

Expand existing innovative apprenticeships, create hybrid models for accelerated completion.

Promote advanced manufacturing pre-apprenticeships for women, transitioning military personnel and disadvantage youth.

Provide standardized, industry-endorsed online instruction and on-the-job learning for companies with sites in multiple states.

Establish 1,000 apprentices and 415 pre-apprentices nationwide.

### What is a Registered Apprenticeship?



On-the-Job Training



Related Instruction



Rewards for Skill Gains



National Occupational Credentials

### **Benefits to employers**

- Higher skilled employees
- Reduced turnover costs
- Higher productivity
- More diverse workforce
- Fewer accidents
- Meet requirements for contract procurement



### Benefits for employees

- Increased skills
- Higher wages
- National credentials
- Career advancement
- Safer workplace
- Job security













### Employer's role

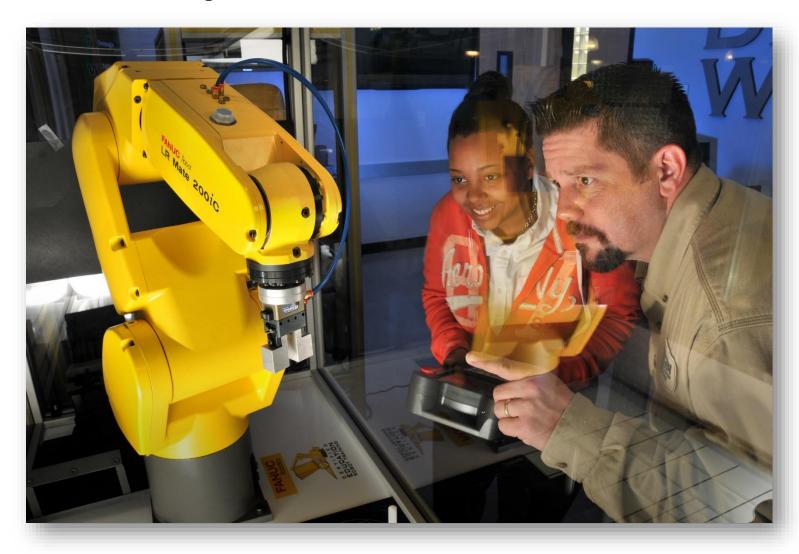


Select apprentices

Provide on-the-job training

Identify
experienced
mentor to work
with the
apprentices

### **Occupations**



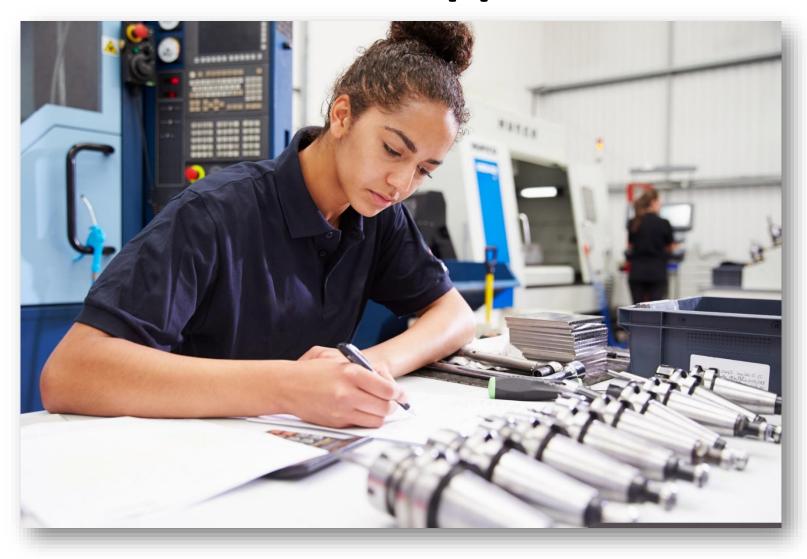
- Additive Manufacturing/3D Printing Technician
- Engineering Assistant
- Welding Technician
- Industrial Manufacturing Technician
- Robotics Technician
- CNC Operator/Programmer
- Quality Control Inspector
- Composites Technician
- Press Operator
- Electrician
- Maintenance Technician/Mechatronics
- Machinist

### **Grant-funded activities & curriculum**



- Consulting services to develop and implement apprenticeship programs for each participating company
- 80 hours of train-the-trainer at company site for journey workers/supervisors
- 4 hour online pre-assessment of apprentices
- 144 hours minimum per year of online course facilitation per apprentice
- Learning Management System (LMS) tracking of apprentices progress of Related Training Instruction (RTI) and On-The-Job (OJT) competencies

### A customized approach



 Apprenticeships customized to meet needs of employers

### **Industry Partners**





**West Virginia** 



West Virginia, Tennessee



Arkansas, Georgia, North Carolina, South Carolina, Texas and Virginia



Ohio



**West Virginia** 

### **Industry Partners**



**West Virginia** 



**West Virginia** 



Illinois



Indiana

#### **Learn more**

# Apprenticeship Partnership Apprenticeship Partnership



Contact Director Lucinda Curry at 800.469.7224