

Education and Workforce Development Report Out and Next Steps

- Promoting manufacturing at family level and earliest education level
- Bring technology into classroom K-3 (i.e. digital printers)
- Partnership between universities and industry to determine needs
- Benchmarking best practices that exist
- Career pathways with multiple entry and exit points
- Student engagement with online programming
- Technician internships in research
- Science teacher certification
- Increase research capacity

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- Virtual and online training
- Importance of learning employability skills
- Consider gender differences
- Every institute needs a workforce development office
- Competencies tailored to the regional needs
- Focus for retraining displaced workers and capitalize on veterans
- Marketing to general public the importance of manufacturing
- Student engagement (science fairs, incentives for pursuing manufacturing)
- Guarantee of sustainable business jobs
- Teacher externships

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- Define advanced manufacturing so all stakeholders are clear about the definition and the breadth of the jobs: engineering, production, marketing, sales.
- Bring together employers and educators and provide access to share knowledge and resources leading to rapid curriculum development and offering students real life experiences starting out with a problem to be solved not necessarily tied to one specific curriculum content.
- Engage professional societies to expand industry involvement, bridge industry and academia, and reduce costs for curriculum development and possibly training activities common across companies.
- Provide a mechanism across the institutes to disseminate knowledge and share experiences.
- Bring together industry and education to establish close and continuous contact including co-ops, internships, apprenticeships and teacher and faculty externships.
- Institutes should play a leadership role in the region, provide an environment for teaching and learning using real world experiences that would teach problem solving, communication, teamwork, project and program management and other work related skills that could be a stimulus for student engagement.
- Performance measures need to be demand driven from employer perspective, if worker is not prepared where is the gap? Offer CEU's and training focused on specific employer needs. Focus on outputs related to the real needs of industry.