INDUSTRY-PURDUE OPPORTUNITY PIPELINE: An Innovative Education & Training Model Based on Industry Influence

PURDUE ROAD SCHOOL TRANSPORTATION CONFERENCE & EXPO

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INDUSTRY CHALLENGES

• The world is evolving and shrinking
• Reliance on aviation is increasing
• 350,000 pilots next 10 years
• Record level orders (manufacturing)
• 25,000 aircraft next 20 years
• Unprecedented employee retirement
• Boeing 50% within 5 years
• New generation of labor
• **New way of learning, doing, skills, tools, resources**
• **Pool of replacement talent restricted**
• **In need of academic/industry pipelines**
• **Competing industries “pulling” talent**
• 480,000 aerospace technicians next 10 years
• Recruit and retain challenging
INDUSTRY NEEDS

- Retain existing employees
- Promote existing employees
- Establish future employee pipeline
- “Build” the future employee
- Recruit and retain future employee
- New skills and certifications
- Communicate needs with academia
“CRADLE TO GRAVE MODEL”
Train, educate, retain, promote
Develop talent management
Reconnect with higher education
Professional development (learn, mentor)
Affordable, leveraged labor
Preview of potential employees (reduced hiring costs)
Exposure of students to industry culture
IMPACT: STUDENTS

• Project-based learning
• Exposure to leading edge technology
• Career track
• Affordability and accessibility
• Decreased tuition costs
• Educational funding opportunities
• Networking and placement opportunities
• Never the same lecture twice
• Research with global application and recognition
• Professional development opportunities
• Networking opportunities
• Development of engagement pipeline
• Research and scholarship opportunities
Q&A

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