

## REVIEW OF YEAR 1 ACTIVITIES: SUMMARY OF KEY ACCOMPLISHMENTS

- Convening a national Advanced Technological Education (ATE) Leadership Caucus comprised of ATE Center Directors, Industry Advisors and NSF Program Officers to examine the Future of Work at the human-technology interface from multiple perspectives.
- Convening a Special Interest Group on the Future of Work at HI-TEC to refine and advance the work begun at the ATE Leadership Caucus meeting.
- Identifying three broad, cross-cutting skill areas that should be included as “new fundamentals” in STEM technician training programs: Data Knowledge and Analysis, Advanced Digital Literacy, and Business Knowledge and Processes.
- Piloting an industry site visit/interview protocol with a tour of Bluegrass Community and Technical College’s Advanced Manufacturing Center and Toyota Motor Manufacturing, Kentucky, Inc. and interviews with technicians, technician supervisors, and mid-level managers.
- Producing and disseminating informative content exploring industry, education, and human resource issues relevant to the Future of Work via articles, podcasts, and blog posts.

## PODCAST SERIES

Podcasts recorded with interviewer Mike Lesiecki cover a variety of Future of Work issues and are disseminated through Science360 Radio, iTunes, GooglePlay, and the project website, <https://www.preparingtechnicians.org/podcasts>

Episode 1: Preparing Technicians for the Future of Work — The Challenges

Episode 2: Who Owns the Skills Gap? Al Carlson, University of Florida, Innovation Station, guest

Episode 3: One of the Key Things to Measure (OEE)—Mariano Carreras, SMC International Training, guest

Episode 4: Design Thinking for Gender Equity— Alexa Frank and Rachael Munkacsi, Deloitte; and Hope Cotner, CORD, guests

Episode 5: Taking a Journey to the Future—Brynt Parmeter and Emily McGrath, NextFlex

Episode 6: Silver Buckshot: A Micro-Credentials Approach to Training and Education— Timothy Thomas, Mohawk Valley Community College, guest

Episode 7: Robots: Smarter and More Independent—Lou Frenzel, Communications Technology Editor, *Electronic Design*

Episode 8: Digital Twins—Gerry Deren, VP for Academic Enablement, Siemens

If you have a suggestion for a podcast topic, please contact Mike Lesiecki, [mlesiecki@gmail.com](mailto:mlesiecki@gmail.com).



The website also hosts the project blog, [Exploring the Human-Technology Frontier](#), with posts written by our Board of Contributors.

- ❖ Whose Responsibility is Information Security, Anyway? And How Do We Address This in Our Future Education Programs?  
Dawn Montemayer, Virtual CSO, CyberRisk Solutions • April 5, 2019
- ❖ Leadership 4.0: People Development in the Fourth Industrial Revolution  
Thomas Lichtenberger, President and CEO, Festo Didactic • May 21, 2019
- ❖ Special Interest Group Hosts Forward-Looking Conversations to Address the Future of Work,  
Tiffany Gray, Project Manager, CORD • August 9, 2019
- ❖ The ABCs of I4.0: What Technicians Need to Know about Incoming Technologies  
Mariano Carreras, International Training Manager, SMC International • August 15, 2019
- ❖ I Did That with My Brain! High School Students Explore Physiological Computing  
Chris Crawford, Assistant Professor, Computer Science, University of Alabama • September 3, 2019

If you would like to serve on our Board of Contributors, please contact Tiffany Gray, [tgray@cord.org](mailto:tgray@cord.org), to schedule a blog post.

## OVERVIEW OF GRANT YEAR 2 ACTIVITIES

Continuing Activities	New Activities
<ul style="list-style-type: none"><li>▪ Industry site visits</li><li>▪ Interviews (technicians, technician supervisors, middle management, executives and HR staff)</li><li>▪ <a href="#">HI-TEC</a> Special Interest Group</li><li>▪ Dissemination activities</li></ul>	<ul style="list-style-type: none"><li>▪ Regional convenings (industry, ATE, other committed parties)</li><li>▪ SME review of priority topics</li><li>▪ Identification of curriculum modifications</li></ul>



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