



# Collecting Student Data in ATE: Strategies for Success From Bridgerland Technical College

- NSF ATE #2100322 “Teaching Technicians Troubleshooting with Mini Industry 4.0 Factories” (TTTMI4.0F)
- NSF ATE #2202090 “Distance-Enabled Industry-Led Data Analytics Technician Pathway” (ILDAP)



# Keys to Collecting Student Data

- Use a grants activity tracker
  - Create columns that line up with annual evaluate survey questions
  - Create columns that line up with grant dissemination activities
  - Create columns that line up with grant outcomes
  - Create columns for activity information such as date, categorization of activity, duration, grant worker, demographics
- Collect throughout the year
  - Incorporate the collection of data into meetings
  - Everyone is responsible for collecting evidence
- Share with evaluator



# Keys to Collecting Curriculum Design Activities

- Use a project management software to collect data for
  - Course level information
  - Curricular structure
    - mapping
    - assignments
    - labs
    - quizzes
    - rubrics
    - styling
- Incorporate into workflow
  - Project management and prioritization of instructional design tasks.
  - Incorporate the collection of data into meetings
  - Everyone is responsible updating tracker/sharing progress in meetings



# Grant Activity Tracker - Filled

Grant Activities Evidence Tracker - Mini Factory

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Date	Grant Worker	Activity Type	Topic	Type and Number of Attendees	Duration	Evidence	Total Participants	Student Participant Information		
								Age of Participants	Female Participants	Male Participants
9/23/2023	Matt	Recruitment/Retention	Automation Technology Open House	53 students, 1 BTECH faculty	1 hour	Photo	54			
10/25/2023	Scott, Mason, Jeff	Dissemination	ATE PI Conference Presentation	Instructors and industry professionals	1 hour	Photo	29		6	20
10/26/2023	Scott, Mason, Jeff, Tiffany	Dissemination	Capitol Hill visit with Burgess Owens and Blake Moore	Congressmen and BTECH faculty	1 hour	Photo				
10/6/2023	Ben	Professional Development (receiving)	Schreiber's Reliability Training	1 BTECH faculty	40 hours	Certificate	1			
11/1/2023	Matt, Jeff, Stephen, Tiffany, Mikaela	Advisory Board Meeting	2023 Advisory Board Meeting - Automation	Industry and BTECH Faculty	1.5 hours	Photo	21			
11/2/2023	Matt, Jeff, Stephen, Tiffany, Mikaela	Advisory Board Meeting	2023 Advisory Board Meeting - Controls	Industry and BTECH Faculty	1.5 hours	Photo	18			
11/9/2024	Ben	Professional Development (receiving)	FANUC Academy Handling Tool Operation and Programming	1 BTECH faculty	32 hours	Certificate	1			
2/5/2024	Matt	Industry Tour	Texas Instruments Tours	200 Students and 9 BTECH Faculty	3 hours	Photo	209 HS			
2/22/2024	Matt	Presentation	Rich HS Presentation	151 Students and 4 BTECH Faculty	1 hour	Photo	155 HS			
2/23/2024	Mason, Matt, Tiffany	Collaboration	BTECH Visits BYU Manufacturing Engineering Team	5 BYU, 5 BTECH	1 hour	Photo	10 College			5
2/29/2024	Matt	Professional Development (receiving)	FANUC Academy V-IRVision Operation & Programming - 3D Area Sensor/3D Vision Sensor	1 BTECH faculty	32 hours	Certificate	1			
3/8/2024	Mason	Presentation	College Career Awareness Presentation		1 hour	Photo	19			
3/14/2024	Matt, Jeff, Stephen, Alan, Ryan	Professional Development (receiving)	BYU Professional Development	5 BYU, 5 BTECH	16 hours	Photo	10			
3/22/2024	Matt	Professional Development (receiving)	ABB Robotics Training - IRCS Accelerated Programming	1 BTECH faculty	32 hours	Certificate	1			
4/10/2024	Matt, Jeff, Stephen, Mikaela	Advisory Board Meeting	Automation Technology Advisory Committee Meeting	18 Industry, 10 BTECH faculty	1.5 hours	Photo	28			
4/11/2024	Matt, Jeff, Stephen, Mikaela	Advisory Board Meeting	Controls Engineering Advisory Meeting	12 Industry, 8 BTECH	1.5 hours	Photo	20			

# Progress Standing Tracker - Blank



Course Progress Standings ☆ 📁 ☁

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	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Assigned To		Courses (Linked)	Priority Order	Teacher Due Date	Instructional Designer Due Date	KSA Mapping	Module Skeleton	Projects/Finals Rubrics	Projects/Finals	Quizzes/Assignments	Lectures	Final Styling
2		Core											
3													
4													
5													
6													
7													
8													
9													
10		Elective											
11													
12													
13													
14													
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16													
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18													
19													
20													
21													

Key

Completed
In-Progress



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