

### Advanced Manufacturing Pathways Research FSU & Chipola College ET Forum 2019

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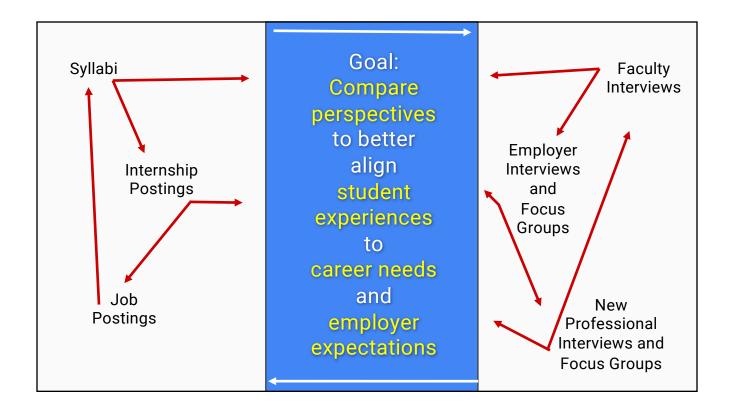
NSF Advanced Technician Education grant 1700581



Where it All Began: IT Career Pathways in North Florida

2013-2018





## What did we find? What does it mean?



Programs imparted key technical skills.

State college and university curricula also consistently prepared students to pass the examinations linked to several **industry certifications**.

Employers sought applied, or **"soft," skills** such as critical thinking, problem solving, teamwork, and written and verbal communication.

New professionals also indicated that the **flexibility** that enabled their work **was not gained** in the classroom.

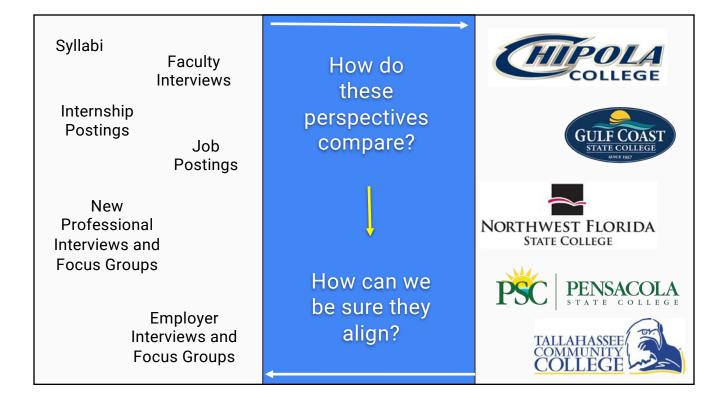
## What did we find? What does it mean?



- Soft skills were **difficult to detect** as learning outcomes, but it was not clear how programs assessed them
- Internships functioned as a **dynamic complement** to coursework and certifications
- Employers viewed internships as a sign that students would be ready for changing blend of technical and professional skills
- New professionals had to quickly specialize, so they needed core technical and broad general (soft) skills

# What will we find when we look at Advanced Manufacturing?







## Project Progress to Date

National Science Foundation 2017-2020

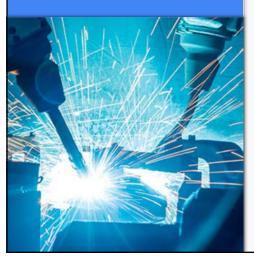
#### Foundational work

- Literature Review
- Definitions analysis
- Competency model analysis
- Body of Knowledge

#### Syllabi analysis

- Topic analysis
- Outcome analysis
- Job posting analysis

# What's Next?



- 1. Finish in-process analyses
- Compare syllabi to job postings
- 2. Conduct interviews and focus groups
- Locate and interview employers
- Locate and interview new professionals
- Locate and interview faculty
- 3. Compare all data

