

ABSTRACT

The overarching goal of the current project is to align training and degree programs with the needs of high growth industries. Students will benefit from clearly articulated and cost-effective pathways toward achieving a baccalaureate degree. Required skills have been identified and emphasized through an advanced manufacturing industry collaboration forum and a curriculum development conference. These efforts will result in a seamless program of Associate's and Bachelor's degrees with Stackable Certificates.

TIMELINE

2016	2017	2018	2019	2020	2021	2022
NSF GRAN	T AWARDED	– SEPTEMB	BER 2016			
CURRICULI	JM PLANNING	G – APRIL –	- JUNE 2017			
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CUKKICULI	JM DEVELOP	MENT — JUI	NE ZUTT-API	AIL ZU IB		
ABET ACCI	REDITATION -	- OCTOBER	2017-AUGU	ST 2019		
MET DEGR	EE APPROVA	L — AUGUS ⁻	Г 2018			
MET DEGR	EE FIRST COI	HORT — AUG	SUST 2018			



POST AWARD - MET A.A.S. AND B.S. DEGREES AWARDED - 2019-2022

GOALS AND OBJECTIVES

1. To strengthen an Engineering Technology Program serving the southern New Jersey region

Highlight technical and non-technical skills aligning with industry needs.

Develop an applications library (real examples of STEM principles) as a faculty resource.

Strengthen career pathways with industry partners, other institutions of higher education, and secondary schools.

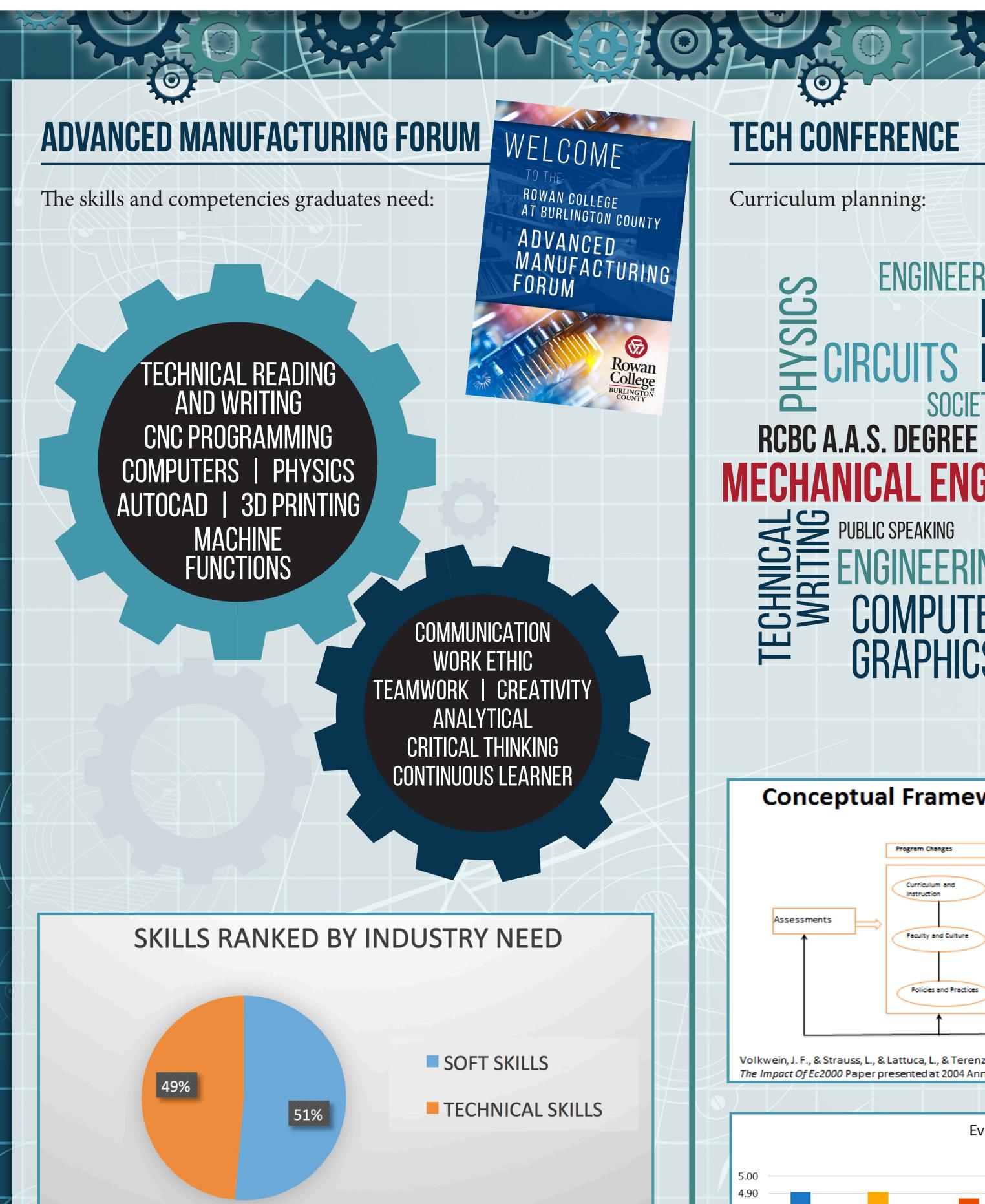
2. To serve as a conduit for the creation of programs and pathways that address unmet training needs and the needs of emergent high growth industries

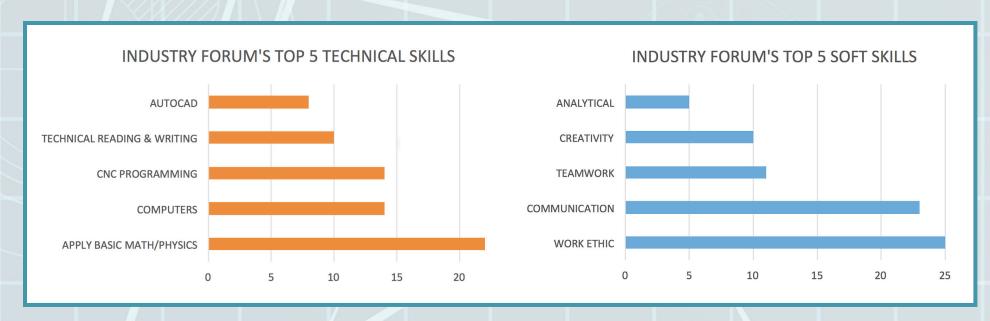
Create a new academic program in Advanced Manufacturing (A.A.S. degree and stackable certificates).

Establish an Advanced Manufacturing training facility.

MECHANICAL ENGINEERING TECHNOLOGY ADVANCED MANUFACTURING DEGREE

Principal Investigator: Dr. David I. Spang, Senior Vice President and Provost, Rowan College at Burlington County Co-principal Investigator: Dr. Edem G. Tetteh, Dean, Rowan College at Burlington County | Co-principal Investigator: Dr. Eric Constans, Associate Professor, Rowan University







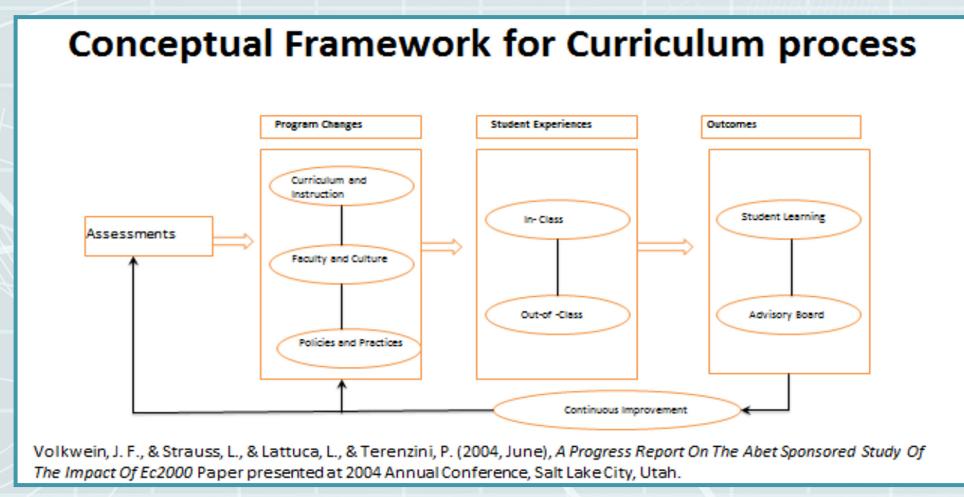
TECH CONFERENCE

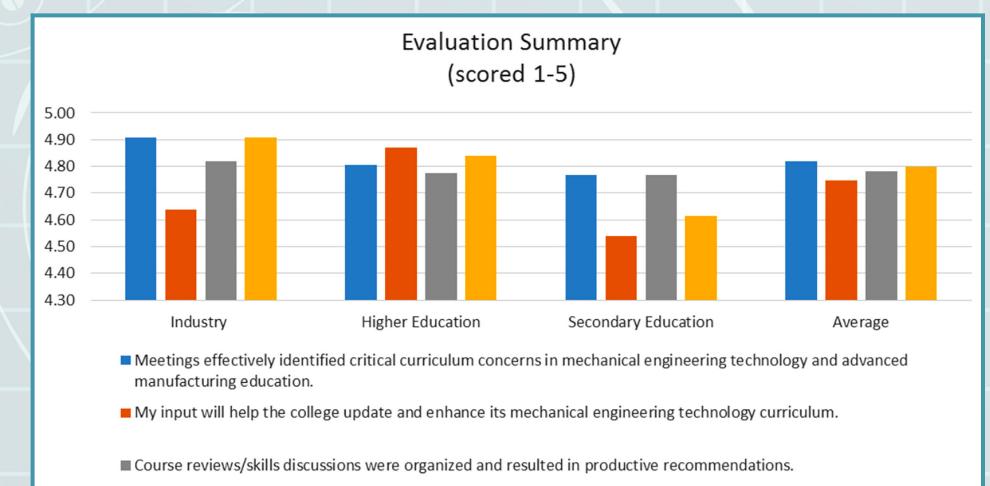
ENGINEERING STATICS ENGINEERING

SOCIETY, ETHICS & TECHNOLOGY SITION SITION

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PUBLIC SPEAKING RU 3+1 B.S. DEGREE GRAPHICS STRENGTH OF MATERIALS











FUTURE DEVELOPMENTS

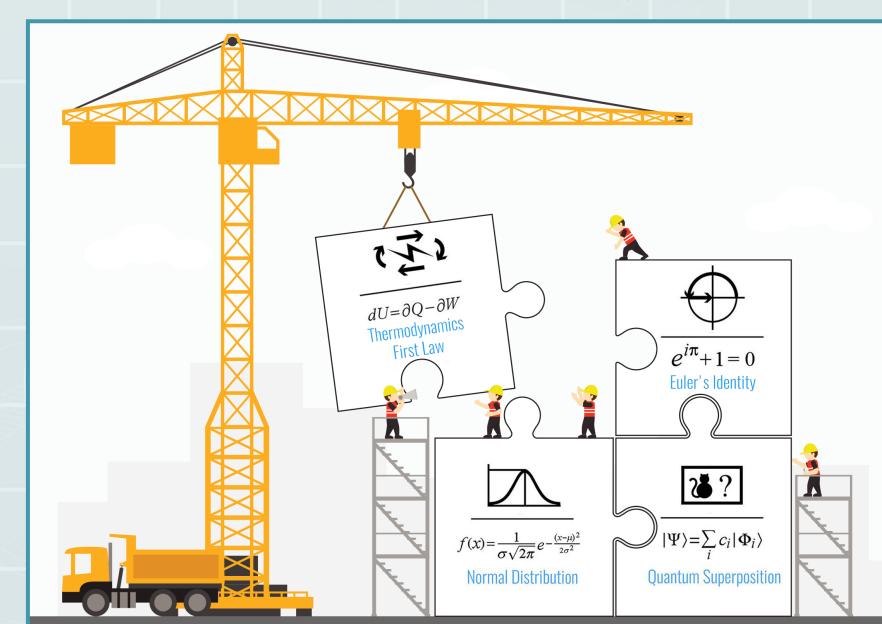
New MET curriculum



Industry Advisory Board with Workforce Development Institute



Online Applications Library



Advanced Manufacturing facility



Complete program pathways



A.A.S. DEGREE IN MECHANICAL **ENGINEERING TECHNOLOGY** B.S. DEGREE THROUGH

RCBC'S 3+1 PROGRAM

STACKABLE CERTIFICATES

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