

Student Success Data

Graduates were asked to answer a series of questions regarding their employment. Note that some items might not total 100% because of missing data. The tables below show the survey responses by program. The tables below show the information gathered from the surveys.

Manufacturing Engineering Technology (MET)

Employment Information at Graduation for MET Students

	2014	2015	2016	2017
After completing the degree program,				
I had a job which continued after completion of my degree program	6		1	
I was hired just prior to graduation	1			
I was hired less than two months after graduation				
I was hired 2-6 months after graduation		1		
I was hired more than 6 months after graduation				
I continued my education				
My first job was related to my major area of study				
Directly related	5		1	
Somewhat related	2	1		
Not related				
Not applicable (I have not worked since graduation)				
What was your starting salary for your first job after completing the program (before deductions)?				
Less than \$30K	3			
\$30K-\$40K	1			
\$40K-\$50K		1		
\$50K-\$60K	2			
\$60K-\$70K	1			
\$70K-\$80K			1	
Greater than \$100K				

The graduates from the MET program reported the following titles of their first job:

- Production Intern
- Continuous Improvement Team Leader
- Manufacturing Engineer
- Process Engineer
- Quality Manager
- Assembly Technician
- Field Engineer
- Industrial Engineer
- Parts Collator
- Project Design Engineer
- Quality Engineer

Graduates were asked to answer a series of questions regarding their job advancement. Note that some items might not total 100% because of missing data. The tables below show the survey responses by program. The tables below show the information gathered from the surveys.

Manufacturing Engineering Technology (MET)

Employment Information for MET Graduates

	2014	2015	2016	2017
What is your annual salary now (before deductions)?				
Less than \$30K				
\$30K-\$40K				
\$40K-\$50K	2	1		
\$50K-\$60K	2			
\$60K-\$70K				
\$70K-\$80K	1		1	
Greater than \$100K	2			

The graduates from the MET program reported the following titles of their current job:

- Process Engineer
- Production Engineer
- Production Supervisor
- Manufacturing Engineer
- Field Engineer
- Group Lead
- Industrial Engineer
- Manufacturing Engineer
- Parts Collator
- Quality Engineer
- Quality Assurance Senior Manager

Each program requires that each student take an internship or cooperative education experience with a local company. Internship survey forms are sent to the immediate supervisor of program interns. Supervisors are asked to rate the student’s performance on 27 job related skills. A Likert scale is used for the ratings where:

- 4 = Outstanding Performance;
- 3 = Very Good;
- 2 = Acceptable;
- 1 = Poor, and,
- 0 = Unacceptable Performance.

There is also a column for Not Applicable.

Data from rating forms were compiled for all majors for the years 2011-2017. Listed in the tables below are the results of this compilation.

Compilation of Employer Responses for MET Students

Survey Item	Number of Responses	Average Response
Attendance & Punctuality	52	3.52
Preparation for the Job	55	3.31
Quality of Work	55	3.47
Work Productivity	52	3.23
Time Management	55	3.15
Use of Supplies and Equipment	9	3.56
Technical Competence	55	3.24
Ability to Solve Problems	54	3.43
Overall Performance	56	3.38
Ability to learn	56	3.59
Verbal Communication Skills	56	3.39
Written Communication Skills	53	3.08
Adaptability	56	3.41
Appearance	55	3.51
Attitude	56	3.68
Dependability	56	3.5
Initiative	6	3.17
Judgment	56	3.41
Reaction to being Supervised	55	3.67
Relation with Clients	51	3.49
Relation with Co-Workers	55	3.64
Ability to Plan Work or Projects	53	3.11
Project Management Skills	46	3.13
Self-Motivated	50	3.56
Respect for Diversity	35	3.37
Demonstrates Responsible Citizenship	36	3.56

Manufacturing Engineering Technology (MET)

The following students were enrolled as majors in Industrial Sciences or Advanced Manufacturing as undergraduates and received their Master of Science in Technology Management at WKU:

- Andrew Austin MS 2013
- Aldious Waite MS 2017

Nate Weed was enrolled as a major in Advanced Manufacturing as an undergraduate and is presently enrolled in the MSETM program at WKU

Students in the MET program are required to take the CMS exam as part of their senior capstone course. In 2013, 2014, 2015, 2016 and 2017 the Advanced Manufacturing students were given the CMS examination at the end of their AMS 490 Senior Research course as a requirement. A summary of the scores of the pass rates is shown in Table 18.1.

Manufacturing Engineering Technology Students Performance on ATMAE Certified Manufacturing Specialist Exams

Year	Exam	Students	Pass/Fail	Avg. Pass Score
2013	CMS	15	13/2	110
2014	CMS	13	8/5	109.4
2015	CMS	15	1/14	105
2016	CMS	19	0/19	N/A
2017	CMS	26	5/21	108.8

A comparison of the scores of the Advanced Manufacturing students to the national average is shown in Table 18.2.

CMS Exam Scores by Manufacturing Students in the Technical Categories

2013	Category	WKU Average	National Average
	Joining	4.87	4.85
	Forming	3.73	4.44
	Casting	4.33	4.23
	Nontraditional	2.27	2.22
	Machining	9.67	9.16
	Polymers	5	5.71
	Ind. Materials	4.4	4.14
	CIM	6.93	6.16
	Wood Tech	3.27	4.11
	Metrology	6.67	5.45
	Drafting	4.2	6.07
	Electronics	4.93	5.14
2014			
	Joining	4.54	5.17
	Forming	4.85	5.04
	Casting	4.08	4.43
	Nontraditional	2.69	2.67
	Machining	1.85	1.85
	Polymers	5.54	5.81
	Ind. Materials	4.77	4.33
	CIM	7.08	6.78
	Wood Tech	3.31	4.31
	Metrology	5.92	5.92
	Drafting	4.54	5.8
	Electronics	5.15	5.27
2015			
	Joining	3.73	4.39

	Forming	3.07	4.34
	Casting	3.27	4.13
	Nontraditional	2.07	2.33
	Machining	2.67	3.38
	Polymers	4.67	5.53
	Ind. Materials	3.73	4.11
	CIM	5.6	6.06
	Wood Tech	2.8	3.6
	Metrology	5.6	5.52
	Drafting	3.87	5.6
	Electronics	4.33	5.09
2016			
	Joining	3.53	5.23
	Forming	2.68	4.92
	Casting	2.74	4.7
	Nontraditional	1.58	2.71
	Machining	6.68	8.75
	Polymers	3.53	5.91
	Ind. Materials	2.84	4.57
	CIM	5.11	7.06
	Wood Tech	3	4.68
	Metrology	4.37	6
	Drafting	3.11	6.83
	Electronics	3.95	5.58
2017			
	Joining	3.65	4.47
	Forming	2.88	4.38
	Casting	4.42	4.21
	Nontraditional	2.27	2.52
	Machining	7.69	8.33
	Polymers	4	5.54
	Ind. Materials	3.38	4.13
	CIM	5.27	6.1
	Wood Tech	2.46	4.35
	Metrology	4.69	5.51
	Drafting	5.23	6.13
	Electronics	4.19	5

