

**Association of Technology, Management, and Applied Engineering (ATMAE)**  
**RE: 4.5 Program Responsibility to Provide Information to the Public**

Western Kentucky University

Department of Architectural and Manufacturing Sciences

Program:

**Master of Science Engineering Technology Management**

Contact: A. Mark Doggett, Ph.D.  
270-745-6951  
mark.doggett@wku.edu

**The MS in Engineering Technology Management (MSETM), in accordance with ATMAE Policy 4.5, posted following information on the MSETM website on June 19, 2013.**  
[http://www.wku.edu/msetm/pdfs/student\\_achievement\\_evidence.pdf](http://www.wku.edu/msetm/pdfs/student_achievement_evidence.pdf)

**Supporting Evidence of Student Achievement**

- Graduation Rate from the Program/Option  
Approximately 18 percent of actively enrolled students graduate each year.
- Average grade point compared to other similar institutional programs

*Undergraduate Grade Points for MSETM Students Compared to Other Colleges in the University*

	<b>Term</b>					
	<b>Fall 2007</b>	<b>Fall 2008</b>	<b>Fall 2009</b>	<b>Fall 2010</b>	<b>Fall 2011</b>	<b>Fall 2012</b>
<b>Undergraduate GPA:</b>						
Program Major	3.90	3.73	3.61	3.29	3.70	3.58
Science and Engineering	3.45	3.47	3.52	3.49	3.53	3.55
Arts and Letters	3.59	3.65	3.56	3.56	3.60	3.62
College of Business	3.59	3.45	3.47	3.52	3.60	3.60
Education & Behavioral	3.72	3.73	3.69	3.71	3.68	3.70
Health & Human Services	3.72	3.67	3.63	3.65	3.67	3.69
University College	3.66	3.48	3.45	3.35	3.44	3.29

*MSETM Graduate Grade Point Average*

	<b>Term</b>					
	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>
<b>GPA:</b>	3.9	3.9	3.8	3.8	3.6	3.9

- Average starting salary  
\$61,363 per year reported as of spring 2011
- Average months to complete the degree program  
26 months  
55% of graduates completed the program in 20 months or less
- Promotions achieved  
31% of graduates report they have advanced professionally.  
31% of graduates report they have advanced financially.

- Outstanding Students <http://www.wku.edu/msetm/outstanding.php>

**2013**



MariEtta "Joleen" Byerline (R)

Joleen Byerline was enrolled in the Master of Science in Engineering Technology Management degree, the Graduate Leadership Certificate program, and the Graduate Certificate in Organizational Communication program. She earned a 4.0 GPA in all three programs. As a graduate assistant, Joleen assisted with research, managed department projects, and instructed sections of AMS-262 Construction Methods and Materials Lab. She is an ATMAE Certified Technology Manager, a member of Epsilon Pi Tau, an honors society for technology professionals, and the vice-president of the local ATMAE students chapter. Joleen represented WKU as one of four finalists in the 2012 ATMAE National Graduate Research Competition. In addition, Joleen is a member of the WKU International Club and Medallion Honor Society.

Faculty members described Joleen as a leader and self-starter with a good work ethic and outstanding problem solving and communication skills. She consistently exceeds faculty expectations. As an teacher she engaged students in meaningful projects and encouraged classroom participation.

A former long-haul truck driver, Joleen has lived in Grayson County Kentucky since the age of 13 and enjoys traveling, camping, gardening, and comedy movies in her infrequent spare time.

Joleen plans to pursue a Ph.D. in Technology Management with a specialization in Industrial Training and Development. Her goal is to become a university professor and researcher.

**2012**

While at WKU, Brittney demonstrated the capability to adapt, learn, and overcome adversity with grace and determination. Brittney balances the duties of a graduate teaching assistant, collegiate athlete, and student. As a graduate assistant, she has been instrumental in student outreach and recruiting as the President of the Association for Technology, Management, and Applied Engineering (ATMAE) student chapter and as a student representative. She also designed, created, and edited numerous information and recruiting videos for the master's degree program. As a graduate teaching assistant, she worked closely with faculty to learn the course content and laboratory equipment for the Introduction to Technology course and received good student evaluations even though her undergraduate degree was in a non-related major. As a student athlete, Brittney was captain of WKU's softball



Brittney Perry (L)

team in the 2010-2011 season and an Academic All-American receiving recognition at the annual leadership banquet.

As a graduate student, she overcame adversity early in the degree program and become an positive example of determination to other students in the department. She listens carefully to the suggestions of faculty and incorporates good judgment on the tasks assigned. She interacts well with her peers and is willing to ask for help if needed.

Brittney has presented at the ATMAE National Conference and was nominated for the medallion honor society. She is also active in campus organizations including the Fellowship for Christian Athletes, Black Graduate Student Association, Habitat for Humanity, Sister to Sister Mentor Program, and M.A.S.T.E.R. Plan.

Brittney is from Zachary, Louisiana and is the youngest of three siblings. Her next goal is to achieve her doctorate in Technology Management with a specialization in Human Resource Development and Industrial Training.

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## 2011



Landon Wray (L)

Landon Wray distinguished himself in the MSTM program at Western Kentucky University; completing all coursework in 24 months with an overall GPA of 4.00. His Graduate Project on abrasive waterjet machining is groundbreaking in that it explores an aspect of the manufacturing technology not previously explored. A portion of this research was presented at the Association of Technology, Management, and Applied Engineering (ATMAE) Conference on October 28, 2010. That same year, he was elected co-president of the Association's first WKU student chapter.

As a Graduate Assistant, Landon was instrumental in organizing and maintaining the manufacturing processes and the materials testing laboratories. His assistance and rapport with undergraduates exemplified the professional nature of the discipline and inspired students to continue their education. In addition, he held a part-time work during his graduate and undergraduate education, successfully balancing work, school, and family.

Landon attended WKU as a freshman and received his undergraduate degree, cum laude, in Industrial Sciences, excelling in all areas of study. In 2009, he was selected as the Outstanding Student in Manufacturing Management. Simultaneously, he was active in WKU athletics as a member of the Cheerleading Squad.

Landon is active in the Baptist College Ministry (BCM)

on campus and is also a member of the Crossland Community Church Praise Band. In his spare time, he works fixing automobiles and volunteers for the Bowling Green Humane Society.

Faculty describe Landon as articulate, well-informed, prepared, knowledgeable, thoughtful, insightful, and a critical thinker. Landon holds himself to a high standard and honors his commitments. He exhibits good relationship building qualities. Regarding his personal character, he is honest, truthful, and amicable.

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**2010**



Sarah Namara

Sarah Namara distinguished herself in the MSTM program as a top scholar, completing all coursework in 18 months with an overall GPA of 3.90. Her thesis, Do Companies Value Maintaining ISO 9000 Certification?, was an outstanding case study of 41 US companies first certified in 2000 and showed that companies do value certification, but only because it is a customer requirement; not necessarily to improve quality. Future MSTM students will appreciate her scholarly thesis as an example of excellent work. During this time, Sarah also worked as a Graduate Assistant for the department, performing excellent research that was the basis for the development of the Kentucky Technology Consortium, whose goal is to establish a seamless course articulation for technology management graduate students in Kentucky.

Sarah completed her undergraduate degree in Electrical Technical Teacher Education at Kyambogo University in Kampala, Uganda. Even though she is still developing her English language skills and has only been in the U.S. since September 2007, she gave three peer-reviewed presentations at two conferences of the Association of Technology, Management, and Applied Engineering and two presentations at the WKU Student Research Conference for the last two years with submitted manuscripts for publication. She maintained active membership in the American Society for Quality and attended the local chapter meetings on campus. In addition, Sarah has distinguished herself as an athlete of distinction, receiving awards for her performance in WKU Track & Field and Cross-Country.

In her spare time, she volunteers as a counselor at the Barefoot Republic, a summer camp for youth of diverse cultures and facilitates artistic, athletic, and team activities. In this program, she helps youth understand that no matter their backgrounds, they are all equal and have the potential to be successful in life. Sarah comes from a family of 10 and has seven brothers, all of whom still live in Uganda. Besides running, which is her passion, Sarah

enjoys attending academic conferences/workshops, listening to music, making new friends, traveling, and helping others.

Graduate faculty who had Sarah in classes or who served on her thesis committee describe her as well-prepared, self-motivated, knowledgeable, thoughtful, collaborative, and participative. Sarah performs to a high standard and honors her commitments. Sarah, while unassuming, has strong leadership abilities. Sarah's personal character is honest, kind, and professional. Overall, she is characterized as patient, considerate, and well-grounded. The graduate faculty of the MSTM program is pleased to recommend her.

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2010



Josh Ferriell (L)

Josh is a military veteran who joined the Air Force in 1999 and received an honorable discharge in 2005. As a Staff Sergeant, he received a Commendation Medal and Achievement Medal. He was also selected as an outstanding performer during a Joint Nuclear Surety Inspection in 2002 at Whiteman Air Force Base. After his government service, Josh received his Applied Science Associates Degree in Electrical Technology at Bowling Green Technical College (KCTCS) and was on the Dean's List.

Josh completed the WKU Veterans Upward Bound Program before attending WKU and completed his B.S. in Technology Management in 2009 with a 3.38 GPA. Josh was voted the Operations Manager for the inaugural 2009 Senior Research Class utilizing the equipment in the Mitch McConnell Advanced Manufacturing and Robotics Laboratory. He also received the Outstanding Senior Award in Technology Management the same year. In addition, Josh played for WKU Rugby from 2007-2010 and was president of the team. Currently he serves as their assistant coach.

As a graduate student, Josh was awarded a graduate assistantship with the AMS Department where he assisted faculty and supervised students using computer integrated manufacturing (CIM) equipment. Josh helped establish the WKU Student Chapter for the Association of Technology, Management, and Applied Engineering (ATMAE) and is currently the Co-President, along with Landon Wray. Josh holds a 3.4 GPA in the graduate program, which he hopes to improve.

Josh is a Bowling Green, Kentucky native and a Bowling Green High graduate. He has 4 siblings (1 older sister and 3 younger brothers) and his father has worked at WKU for over 40 years. His sister teaches part time in Women's

Studies at WKU.

Faculty characterize Josh as self-motivated, easy-going, and an emerging leader. Faculty who have had Josh in classes describe him as a solid thinker, excellent problem-solver, and one who desires to learn. Josh has made great progress in improving his written and oral communication skills this year.

2009



Travis Mattingly (C)

Travis Mattingly distinguished himself in the MSTM program at Western Kentucky University; completing all coursework in 18 months with an overall GPA of 3.90. His Graduate Project, titled Research and Development of Customer Oriented Project Guidelines, was an outstanding application of the Project Management Book of Knowledge (PMBOK) Guide (2004) to the design of a customer-based project management system at LINAK US, Inc., a Louisville-based design and manufacturing firm of electric linear actuator systems. This effort connected project management theory with actual practices in the work place and allowed managers to tailor their project strategies to serve customer needs while maintaining a degree of standardization and efficiency. His project, originally developed as a pilot application of a project management system, is being reviewed as the standard for all future projects. There is also the possibility that the parent company in Denmark will be interested in the system as the model for project management worldwide.

Travis completed Project Management Certification at KCTCS and the Project Management Professional (PMP) Prep Course through Villanova University. Because of his outstanding performance, LINAK US authorized full PMP certification at the prestigious Project Management Institute (PMI). His contributions at LINAK US were recognized in 2008 when he received the Company Value Award for Continuous Improvement and Project Management, and the Job Satisfaction and Helpfulness Award. Travis has great potential for accomplishment and promotion in project management and applications engineering. His current company contributions have already resulted in significant efficiencies and increased communication. Future MSTM students will appreciate his scholarly Graduate Project as an example of excellent work.

Travis received his undergraduate degree, cum laude, in Applied Technology from WKU and excelled in all areas of study. Has active scholarship as a Gamma Beta Phi Honors Society member. In his spare time, he continues to support and manage activities on his families' Kentucky

farming operation of 40 years.

Graduate faculty describe him as articulate, well-informed, prepared, self-motivated, knowledgeable, thoughtful, insightful, and participative. Travis holds himself to a high standard and honors his commitments. He exhibited leadership abilities that were unequaled by his peers. Regarding his personal character, he epitomized the leadership qualities one would expect of a technology manager: honesty, a humane perspective, and professionalism. Overall, he characterized as having a great deal of personal integrity and truthfulness.

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2008



Paul Mooney

Paul was the first graduate of the Master of Science in Technology Management at WKU. He was a standout student who was always ready to accept the challenges of a leadership position. His attitude, efforts, and commitment were the best. While here, Paul received recognition from Ogden College of Science and Engineering as the Outstanding Graduate Student of the Year for the program. He left a lasting and positive impression.

According to the graduate faculty, it was a privilege to work with Paul on his graduate project. Paul consistently demonstrated a high level of scholarly performance and greatly influenced other graduate students through his stellar example. All who came into contact with him were impressed with his knowledge, leadership qualities, and active participation. Paul was also employed as a graduate assistant in the development of a grant proposal to the National Collegiate Inventors and Innovators Alliance. While working towards his degree, Paul maintained a 4.0 GPA in addition to maintaining a busy schedule and full-time work responsibilities. His commitment to academic excellence was evident in the quality and depth at which he completed his studies.

Paul is currently employed as the Compliance Manager for Research and Sponsored Programs at WKU. Paul's qualifications in business, combined with his years of industrial practice provide him with a depth of experience. Furthermore, Paul's skills in research, attention to detail and people, make him an excellent technical manager.