

Overview for Graduate Engineers

Interested in becoming a leader in today's highly competitive world of Operations?

The Tauber Institute is a joint venture between the University of Michigan's Stephen M. Ross School of Business and the College of Engineering, and many industry partners to facilitate cross-disciplinary education in global operations management. It was founded in 1993 to meet industry's need for a new kind of graduate—one who has an exceptional academic background, extensive professional experience, and most importantly, can successfully integrate business and engineering perspectives to lead global operations into the future.



Bevin Mathew, MSE-IOE '16, 2016 team Project: BorgWarner Emissions Systems. Photographer: P. Dattilo



Academics/Courses

Topics in Global Operations begins with an overview of operations in the context of corporate strategy. This is followed by a series of modules dealing with various topics of importance in operations, such as lean production systems, supply chain management, design for manufacturability, facilities planning, the environmental, legal, and ethical issues in operations, and product design. Students learn how all these aspects of operations interconnect and how they may apply to Tauber team projects.

Manufacturing and Supply Operations

introduces the basic concepts and techniques of operations and inventory management. The foundation of the course is a system of manufacturing laws collectively known as "Factory Physics."



Professional Skills/Leadership AdvantageSM Program

A series of modules teaching students useful techniques to stand out among their competition in the workplace after degree completion. In conjunction with the Tauber curriculum, students are exposed to important operations topics such as Six Sigma and Value Stream Mapping as well as social and professional skills such as public speaking, team dynamics, project management, and personal interviewing skill development.



Industry Experience/Team Project

The capstone to the Tauber Institute, this action-based, guaranteed 14-week consulting-like project gives a team of engineering and business students the opportunity to deliver high impact results to an industry-leading company.

Facility tours scheduled throughout the academic year provide insight into operations and Lean manufacturing.

2016 Tauber Institute Placement Statistics August 2015–April 2016 Graduates

INDUSTRY	%	BASE			SIGNING BONUS	
		Avg.	Median	Range	%	Median
Engineer 24 of 30 responding						
Consulting	50%	\$76,916	\$77,500	\$65,000–\$90,000	83%	\$5,000
Manufacturing	25%	\$82,833	\$84,500	\$70,000–\$89,000	33%	\$5,000
Services	25%	\$91,916	\$88,000	\$75,000–\$120,000	67%	\$7,000



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Frequently Asked Questions



2016 Employers

Amazon
Apple Inc.
AquaFlow
AT Kearney
Avencore
Bain & Company
BASF
Beepi
Beijing Corona
Blue Cross Blue Shield of Michigan
Boeing
BorgWarner Inc.
Capital One
Cisco Systems
Deloitte Consulting
Ecolab
Edwards Brothers Malloy
Enterprise
Epic Systems
GE Aviation
GEP Worldwide
Guardian Industries
Gunderson Dettmer
Hewlett Packard
IBM
ICF International
Infosys
Intel
KPMG
Ladrillera Mecanizada SA de CV
McKinsey & Company
McMaster Carr
Merck & Co.
Microsoft
PG&E
Pricewaterhouse Coopers
Shell Oil
SK Innovation
Strategy&
Target Corporation
Tek Systems
The Boston Consulting Group
The Keystone Group
Uber Technologies, Inc.
Walkwater Technologies
Xin Kuxue Education Ltd
Zimmer Biomet

Q: What value can the Tauber Institute bring to an engineering student? What are the benefits of obtaining a graduate engineering degree with the Tauber overlay?

A: Through the Tauber Institute, you will obtain a guaranteed, paid team project. You will also receive extensive leadership and team work training through the LeadershipAdvantageSM Program, and you will have access to both engineering and business school career resources.

Q: What graduate engineering degree programs enable me to be a part of the Tauber Institute?

A: The Tauber Institute is open to graduate engineers in any program who are interested in operations. It is highly recommended that all graduate engineers have to at least two years of full-time work experience, but multiple substantive internships will be considered.

Q: What if I have no previous business experience? Will this be a problem for the team project?

A: Working as a team with at least one business student, the engineering student brings his/her technical skills to the project complementing their teammates' business knowledge. Through the LeadershipAdvantageSM Program, both business and engineering students learn how to effectively collaborate with teammates from a variety of backgrounds with a robust set of skills and experience.

Q: What types of engineers (disciplines) are suited for the Tauber Institute?

A: Practically any type of engineer who wants to understand the operations area of a business is well-suited for the Tauber Institute. For example, a chemical engineer with skills obtained from the program, can effectively manage the process of drug manufacturer/delivery. A computer engineer familiar with the supply chain can program controllers to run an automated operation. Or a Tauber-educated mechanical engineer can bring a design from prototype to wide-scale production in the most cost-effective manner, resulting in great savings for his/her employer.

Q: At what point in my (engineering) academic career do I complete the Tauber project?

A: Students in a graduate engineering program complete the project over the summer following two semesters of study. For these students, the project becomes the culmination of their U-M and Tauber experience.

Q: In what industries/positions do Tauber engineers work after graduation?

A: Depending on their interest, Tauber engineers take jobs with a variety of companies, consulting firms, and service industries. Positions they accept include Regional Sourcing Manager, Continuous Improvement Manager, Inventory Planner, Consultant, Operations Analyst, and Supplier Development Engineer.