

## EMPLOYERS OF RECENT AES GRADUATES

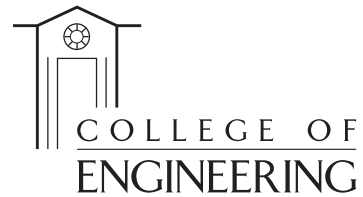
Accenture  
Avnet, Inc.  
Boeing  
Consumers Energy  
CoreComm  
Crowe, Chizek and Company  
DaimlerChrysler  
DENSO Manufacturing  
Detroit Diesel  
Dow Chemical  
Eaton Aerospace  
EDS  
Ford Motor Company  
Frito-Lay  
General Electric  
General Mills  
General Motors  
Honeywell  
IBM  
Johnson & Johnson  
Johnson Controls  
Kraft Foods  
Lear Corporation  
Motorola, Inc.  
Northrop Grumman  
PepsiCo, Inc.  
Pfizer Inc.  
Procter & Gamble  
Steelcase, Inc.  
Stryker Medical  
Texas Instruments  
Toyota Motor Manufacturing  
Union Pacific Railroad  
Urban Science  
Verizon



*"The Engineer of 2020\* report foresees an increasing need to integrate strong analytical capabilities, communication skills, business knowledge, and leadership. Our AES program equips students with the agility and flexibility required in the evolving new economy."*

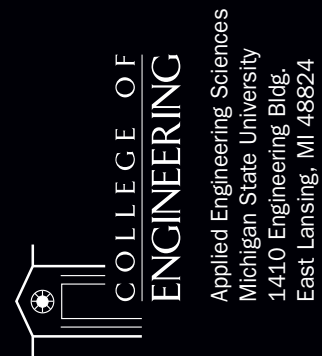
**Thomas F. Wolff, PhD, PE**  
Associate Dean for Undergraduate Studies

\*[See <http://www.nap.edu/catalog/10999.html>] National Academy of Engineering, *The Engineer of 2020: Visions of Engineering in the New Century* (Washington, DC: The National Academies Press, 2004).

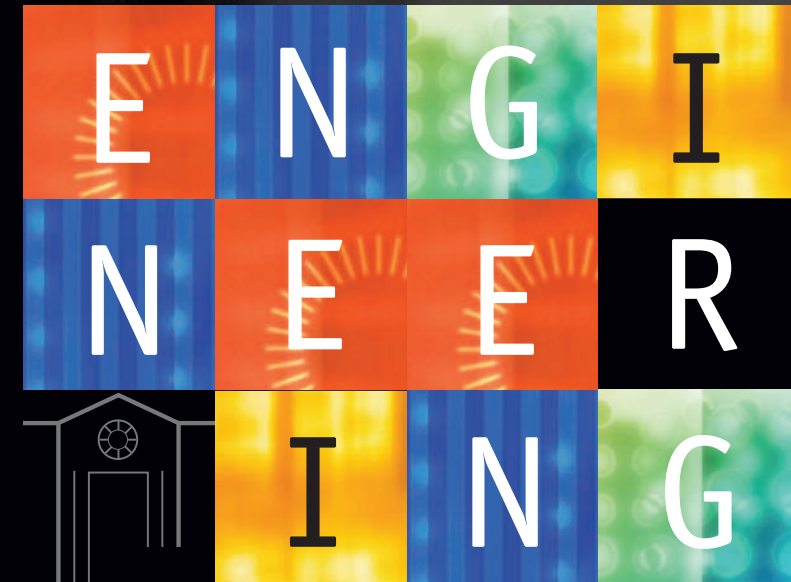


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# applied engineering sciences



## AT A GLANCE 2006-2007

MICHIGAN STATE  
UNIVERSITY

## APPLIED ENGINEERING SCIENCES

The Applied Engineering Sciences (AES) major is an undergraduate interdisciplinary program that combines scientific and technical coursework with a complementary cognate resulting in a Bachelor of Science degree awarded by the College of Engineering. The major provides educational opportunities for students who wish to gain a broad foundation in the engineering sciences, core engineering disciplines, and their application to one of the cognate areas. Cognates are available in Business-Supply Chain Management (27 credits) and Telecommunication (30 credits). On a space-available basis, an Information Technology specialization can be combined with either of the two cognates.

The program is designed to develop individuals who:

- Bring to the workplace a knowledge of business, management, and logistics, with a solid foundation in calculus, basic sciences, and engineering sciences
- Can apply the rigor of their education and training to a diverse set of problems
- Are prepared to work in the areas where planning, design, production, and procurement interface with marketing, distribution, sales, and management
- Can effectively communicate across diverse professional disciplines
- Are knowledgeable of contemporary technological and societal issues and can facilitate the effective deployment of new technologies

AES graduates are uniquely qualified to function in a variety of employment settings and bring engineering skills to diverse business settings.

*"The Applied Engineering Sciences program gave me a cross-disciplinary foundation that allowed me to quickly excel in diverse corporate situations, including engineering, marketing, sales, finance, management, and legal functions."*

**Monte L. Falcoff**  
Patent and Trademark Attorney  
Harness, Dickey, & Pierce

## JOB TITLES OF RECENT AES GRADUATES

*(The average starting salary for Applied Engineering Sciences graduates in 2006 was \$53,857.)*

Account Executive  
Accountant  
After-Market Expediter  
Analyst  
Application Engineer  
Commodity Manager  
Consultant  
Consumer Representative  
Customer Account Rep.  
Customer Service Rep.  
Distribution Specialist  
District Sales Engineer  
District Service Manager  
Expediter/Facilities Engineer  
Field Technical Representative  
Financial Analyst/Forecaster  
Industrial Market Analyst  
Logistics Engineer  
Logistical Manager  
Loss Prevention Engineer  
Manufacturing Development Engineer  
Materials Control Engineer  
Operations Manager  
Patent Attorney  
Process Supervisor  
Product Engineer  
Production Supervisor  
Procurement Specialist  
Project Manager  
Quality Assurance Engineer  
Sourcing Specialist  
Supply Chain Planner  
Systems Application Engineer  
Technical Sales Engineer  
Technical Writer  
Telecommunications Engineer  
Test & Development Engineer  
Value Analysis Engineer



## SOCIETY OF APPLIED ENGINEERING SCIENCES

The Society of Applied Engineering Sciences (SAES) is an MSU student organization that promotes and fosters interest in the Applied Engineering Sciences major. The society informs engineering students of the opportunities available to them through the AES major and promotes their unique educational blend of technical/engineering knowledge with a non-technical specialization to prospective employers. The group sponsors activities that enable AES students to get to know each other and to become aware of industrial opportunities. Membership is open to applied engineering sciences and no-preference engineering majors of all class levels. For more information concerning the SAES, go to: <http://www.egr.msu.edu/saes/>

## ENGINEERING COOPERATIVE EDUCATION

Cooperative Education provides students with an opportunity to gain major-related work experience while enrolled in the college. For information, contact the Cooperative Education Office in 1410 Engineering Building, (517) 355-5163 or visit [www.egr.msu.edu/coop](http://www.egr.msu.edu/coop).



*"MSU's AES program not only provided me with the engineering tools required at my current position, but also gave me a solid business base. I am very satisfied with my selection of the AES program at MSU."*

**Monica L. Braman**  
EW Systems Engineer, The Boeing Company



*"In today's highly competitive environment it's imperative that employees understand how the different functional responsibilities within a business impact one another. The AES program at MSU is unique in its capability to provide this broad exposure for the students."*

**Chad McLelland**  
Corporate Account Manager, Siemens

