EMLOYERS OF RECENT AES GRADUATES

Accenture
Avnet, Inc.
Boeing
Caterpillar
Chrysler
Consumers Energy
CoreComm
Dell Inc.
DENSO Manufacturing
Dow Chemical
Eaton Aerospace
EDS
Ford Motor Company
Frito-Lay
General Electric
General Mills
General Motors
Honeywell
IBM
Johnson & Johnson
Johnson Controls
Kraft Foods
Motorola, Inc.
Northrop Grumman
PepsiCo, Inc.
Pfizer Inc.
Procter & Gamble
Schlumberger
SC Johnson
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


FOR MORE INFORMATION

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**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 in contemporary technological and societal issues and can facilitate the effective deployment of new technologies
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AES graduates are uniquely qualified to function in a variety of business settings.

**JOB TITLES OF RECENT AES GRADUATES**

(For the average salary range for Applied Engineering Sciences graduates in 2008 was $51,190 to $61,000.)

- Account Executive
- Accountant
- After-Market Expeditor
- Analyst
- Application Engineer
- Commodity Manager
- Consultant
- Consumer Representative
- Customer Account 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 complementary specialization to prospective employers. The group sponsors activities that enable AES students to get to know each other and to become aware of corporate 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 EXPERIENTIAL EDUCATION**

Experiential education, such as co-ops and internships, provides students with an opportunity to gain major-related work experience while enrolled in the college. Les Leone, director of Applied Engineering Sciences, received the 2007 American Society for Engineering Education’s Clement J. Freund Award for his long-term influence in bettering the cooperative education movement. For information on how to participate, contact The Center in 1340 Engineering Bldg.; call (517) 355-5163 or visit www.egr.msu.edu/thecenter.

**“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

**“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. Broman
EW Systems Engineer, The Boeing Company

**“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
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- 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
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- Value Analysis Engineer

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Harvey, Dickey, & Pierce
EMPLOYERS OF RECENT AES GRADUATES

Accenture
Avnet, Inc.
Boeing
Caterpillar
Chrysler
Consumers Energy
CoreComm
Dell Inc.
DENSO Manufacturing
Dow Chemical
 Eaton Aerospace
EDS
FORD Motor Company
Frito-Lay
General Electric
General Mills
General Motors
Honeywell
IBM
Johnson & Johnson
Johnson Controls
Kraft Foods
Motorola, Inc.
Northrop Grumman
PepsiCo, Inc.
Pfizer Inc.
Procter & Gamble
Schlumberger
SC Johnson
Steelcase, Inc.
Stryker Medical
Texas Instruments
Toyota Motor Manufacturing
Union Pacific Railroad
Urban Science
Verizon

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