

The George W. Woodruff School of Mechanical Engineering at Georgia Tech

What is ME?

What jobs can I do as an ME?

Mechanical Engineering Is...

- Finding creative solutions to problems!
- Perhaps the broadest of all the engineering disciplines.
- Working with motion, energy, forces, and heat.
- Concerned with analysis, design, manufacture and operation of:

“Scientists discover the world that exists; engineers create the world that never was.”
-Theodore Von Karman



Energy



Defense & Aerospace



Manufacturing



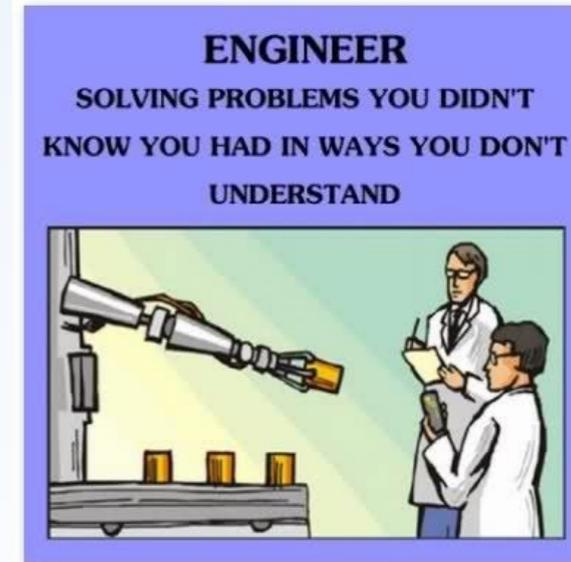
Environment



Health & Bio



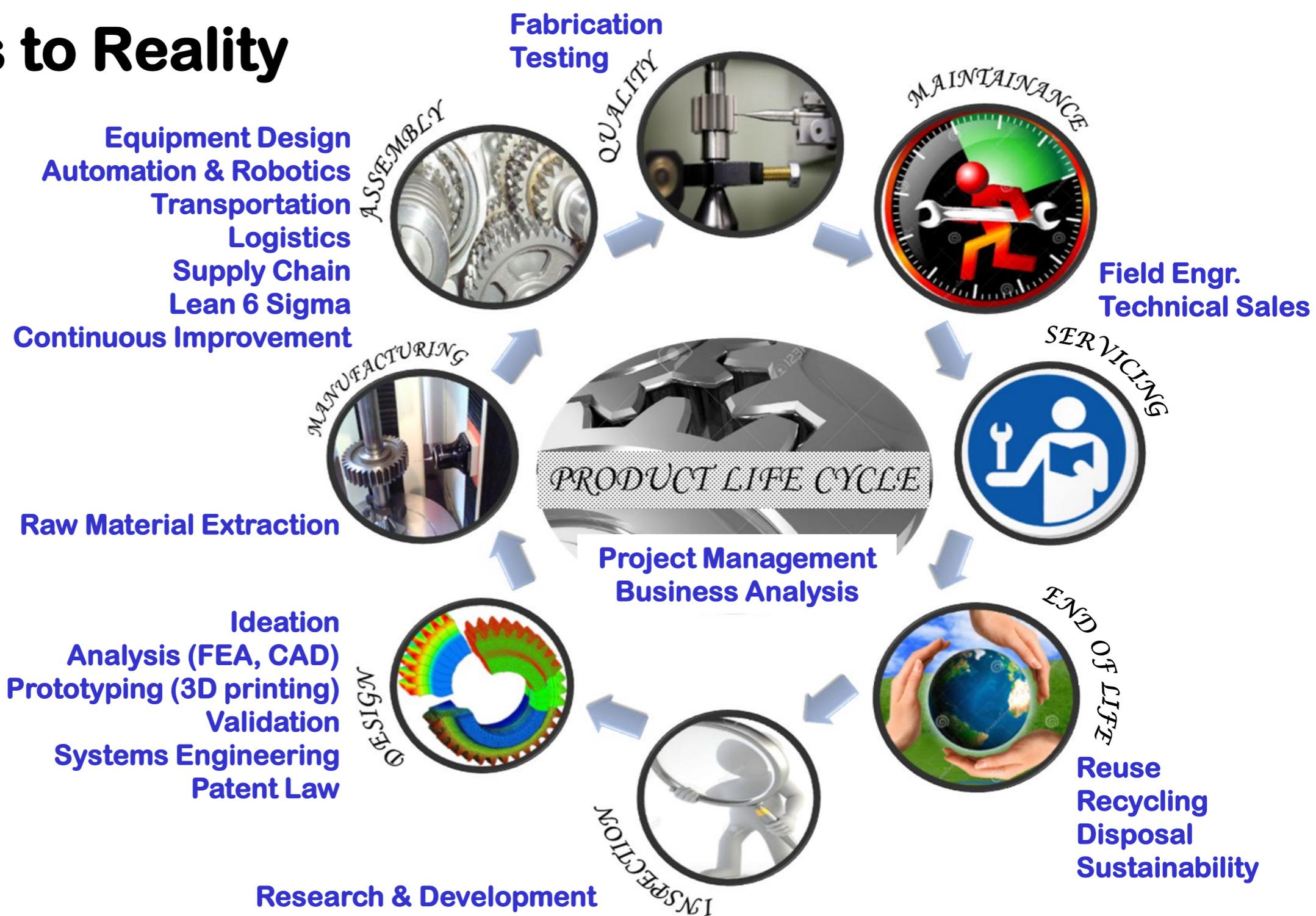
Transportation



ME: Ideas to Reality

Examples of Design

- Machines that manufacture and package all varieties of products
- Sports equipment
- Consumer products (napkins to roller coasters)
- Automation - conveyors, robots, production lines
- Cars, trucks, heavy equipment, buses, aircraft, ships
- Construction equip.
- Oil well drilling and extraction equipment
- Electronics
- Nearly every man made object has been worked on by a Mechanical Eng.



What Industries Hire ME's?



Aerospace & Defense



Automotive, Rail, Ships, etc



Food & Beverage



Renewable Energy



Oil & Gas



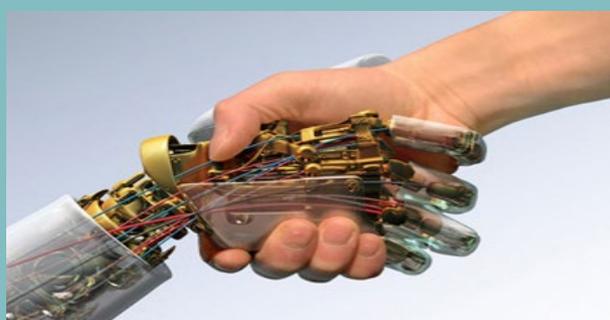
Consulting



Toy Design & Manufacturing



Construction & Equipment



Automation & Robotics



Power Generation



Biomedical

And many more...

- HVAC & Refrigeration
- Electronics, telecom
- Consumer products
- Chemical, pharmaceutical
- National laboratories
- Military

Our Recent Graduates Are At:

- **Automotive**

Ford, GM, Toyota, BMW, KIA, Honda, Mercedes, Bosch, Michelin, Tesla, Porsche,

- **Energy, Oil & Gas**

BP, Citgo, Baker Hughes, Schlumberger, Georgia Power, Southern Company, General Electric, Shell, Suez Energy, Chevron, Scana, Westinghouse, Atlanta Gas & Light, Exxon-Mobil, Conoco, Apache, Phillips 66, Bechtel, Baker Hughes

- **Commercial & Consumer Products**

Cooper Lighting, General Mills, Clorox, Frito Lay, Mattel, Coke, International Paper, Lexmark, Proctor & Gamble, Snap-On, 3M, National Instruments, Texas Instruments, Kimberly Clark, Kids II, Apple, Southwire, Colgate, Russell Athletic, Steelcase, Georgia Pacific, AGCO

- **Transportation & Construction**

John Deere, Caterpillar, Kubota Tractor Corporation, Norfolk Southern, CSX, Parsons, Club Car, EZ Go

- **Aerospace & Defense**

NASA, Bell Helicopter, Lockheed Martin, Gulfstream Aerospace Corp, Rolls Royce, Northrop Grumman, Harris Corp, Boeing, NAVSEA, Boeing, Advanced Armament Corp, NAVAIR, Pratt & Whitney, SpaceX, L3 Technologies

- **Business**

Ernst & Young, Bank of America, CarMax, Deloitte, Capital One, Accenture, Pinnacle

- **Automation and Robotics**

Innotec Automation, Rockwell Automation, IPA, Advanced Automation, Factory Automation

- **Engineering Services & Consulting:**

Dean Oliver International, CH2M, Patterson & Dewar, McKenney's Mech. Contractors, Jordan & Skala, Accenture, Babcock & Wilcox, Turner Construction, Slingshot, Pinnacle, Deloitte

- **HVAC**

Trane, Underwood Air Systems, Carrier

- **Chemicals**

Air Products, Air Liquide, Dow Chemical, Eastman Chemical Company

- **Medical & Pharmaceutical**

Medtronic, GE Healthcare, Abbott Labs, CibaVision, Eli Lilly, Johnson & Johnson

- **Military & Government**

Air Force, Navy, Marines, Army, CIA, FBI

ME Full-Time Hiring (2015-2018)

Top 12 Employers

General Motors (GM)
Boeing
Accenture
Eaton Corporation
ExxonMobil
Shell Oil Company
SpaceX
Epic
Harris Corporation
Lockheed Martin
Newell Brands
General Electric (GE)

Additional Top 40 Employer Highlights

3M	Microsoft
Area-I (UAVs)	National Instruments
B&R Automation	Northrop Grumman
Caterpillar	P&G
Ford Motor Company	Phillips 66
Georgia Power	Pratt and Whitney
IBM	Pricewaterhouse Coopers
Insight Sourcing Group	Proficient Engineering, Inc.
Manhattan Associates	Tesla
McKenneys	Textron Specialized Vehicles
Michelin	The Clorox Company

Top States

GA	45 %
CA	7 %
TX	6 %
FL	5 %
MI	5 %
SC	3 %
LA	3 %
NY	3 %
NC	2 %
AL	2 %
MA	2 %
VA	2 %
WI	2 %

Spring 2018 Salary Data:
75% of BSME students had job offers with a median salary of \$70,000

Over 170 different companies have hired BSME students over the last 3 years