



Centers

Vision:

- Over the next five years, the Centers Sector Board will focus sector efforts in support of the strategic initiatives set by the Board of Governors, and will become a global leader for providing high-quality, exciting, and innovative mission-focused cross-sector programs that enhance the capability of the organization.

Mission:

- To provide diverse and intellectually rich opportunities that support development of the engineering profession and engineers from pre-college throughout their professional career, and to enhance engineering across the globe through education, collaboration, building diversity, and internal and external strategic partnerships.

Center for Education

Center for Leadership and Diversity

Center for Career and Professional Advancement

Center for Public Awareness

Center for Education

- **Mechanical Engineering Education Conferences**
The annual premier event for mechanical engineering department heads and faculty leaders to network, debate current issues, and examine strategies that will help them chart the future of their research and instructional programs. An international summit held outside North America is also held once a year.
- **Workshops:** Workshops on ABET accreditation, "Tips for Tenure and Promotion," and department head leadership are conducted at various venues.
- **Professional Practice Curriculum:** Online courses to supplement the formal college/university engineering curriculum and aid engineering faculty in better preparing graduates for entry into and early advancement in the engineering profession.
- **ME Department Benchmarking Study Reports:** The latest statistics on U.S. mechanical engineering departments such as department budget, faculty salaries, number of faculty, and more.
- **ASME/ABET Evaluators:** Volunteers who assure the quality and vitality of Mechanical Engineering, Mechanical Engineering Technology, or related degree programs.
- **Graduate Student Center:** Website focusing on programs and services for graduate students.
- **Awards:**
 - Ben C. Sparks Medal:** Recognizes eminent service to mechanical engineering technology education through contributions to ASME, higher education professional service, and teaching and/or research.
 - Frank von Flue Award:** Recognizes significant contributions by an individual, group, company or institution to the promotion of lifelong learning for mechanical engineers.
- **Directory of Worldwide University Websites:** A directory of over 600 mechanical engineering, mechanical engineering technology and related department websites at colleges and universities worldwide.

Center for Leadership and Diversity

- **Diversity Action Grants:** Grants are awarded to enable student sections to sponsor events that promote the inclusion of women and underrepresented minorities in ASME Student Sections and the mechanical engineering profession.
- **ECLIPSE Program:** The Early Career Leadership Intern Program to Serve Engineering (ECLIPSE) program matches early career engineers with a specific ASME unit for a period of one year, where they work closely with an assigned mentor to complete one or more projects throughout the year.
- **African American Engineers and Inventors and Women in Engineering Poster Series:** Two poster projects featuring outstanding African American and Women Engineers.
- **Diversity Forums:** Workshops on strategic diversity methodologies for ASME leaders.
- **Diversity Center:** Website focusing on diversity. Includes webcasts from Gender Equity Project.
- **National Academy of Engineering Gender Equity Project:** ASME is a partner in the NAE's program to increase the enrollment, retention, and graduation rates of women in engineering.
- **Diversity Metrics:** Periodic analysis of ASME's membership by gender, ethnicity, and nationality.
- **ASME Johnson & Johnson Consumer Companies, Inc. Medal:** An award which recognizes outstanding contribution by an individual, company, government entity, school, or other organization toward developing and implementing practices, processes and programs that value and strategically manage diversity and inclusiveness.
- **McDonald Mentoring Award:** An award to honor outstanding mentoring of other professionals by an engineer in industry, government, education or private practice.

Center for Career and Professional Advancement Early Career Engineer Center

- **Early Career Meet-ups:** Networking event at ASME Congress for early career practicing engineers and graduate students.
- **Early Career Technical Conferences:** Provide early career practicing engineers, graduate students, and early career academics with a forum to present their technical work and, in the process, develop their skills in written and verbal presentations.
- **Transitions:** Assembled web links, articles, and guidance tools to help with the transition from school to work; career advancement; and life and money management.
- **E-Mentoring:** Year-round program of over 500 mentors available to all ASME members with less than 5 years of work experience in the engineering field.
- **Old Guard Early Career Engineers Award:** Sponsored by ASME's Old Guard Committee, this award was established to provide encouragement – through a financial incentive – for early career engineers who actively involve themselves in their profession, their communities, and the work of ASME.
- **ME Today Magazine:** Online bi-monthly newsletter for students and early career engineers.

Center for Professional Development, Practice and Ethics

Student Center

Financial Aid

- **ASME Low-Interest Student Loans:** The ASME Student Loan Program is designed to provide low cost financial assistance to undergraduate and graduate ASME Student Members enrolled in degree programs in North America.
- **ASME Scholarships:** Nearly \$100,000 in academic scholarships is awarded annually to ASME Student Members worldwide.
- **The ASME Graduate Teaching Fellowship Program:** The ASME Graduate Teaching Fellowship Program encourages outstanding doctoral candidates in Mechanical Engineering, especially women and under-represented minorities, to pursue careers in teaching.

Student Competitions

- **The ASME Student Design Competition (sponsored by The Boeing Company):** Student member teams design, construct and operate a prototype meeting the requirements of an annually determined problem statement.
- **The Human Powered Vehicle Challenge:** Teams build aerodynamic, highly engineered vehicles run on human power.
- **The Old Guard Prize - Oral Presentation, Technical Poster, Technical Webpage, and Video Presentation:** Competitions for individual students on the delivery of technical information through public speaking, posters, webpage technology, and video.
- **Student Programs & Resources**
- **The ASME Student Professional Development Conferences:** Student conferences serve as venues for professional development sessions; workshops; grad school seminars; career fairs; and the annual ASME Student Design, Old Guard and other ASME competitions.
- **E-Mentoring:** A service to all student members and a great way to network with professional members of the society and find out about career choices in engineering.

Student publications & communication tools

- **ME Today:** Online bi-monthly newsletter for students and early career engineers.

Center for Career and Professional Advancement

Ethics Center

- **Community of Practice On Ethics and Ethical Engineering Practice:** An online community devoted to topics relating to ethics in engineering, including technology disasters and environmental concerns.
- **The Code of Ethics of Engineers:** One of ASME's Society Policies, it is a resource listing the fundamental principles and canons for engineers.
- **Criteria for Interpretation of the Fundamental Canons of the Code of Ethics of Engineers:** Guidelines that represent the objectives toward which members of the engineering profession should strive.
- **PPC Ethics Module:** ASME's Professional Practice Curriculum offers a self-study module on engineering ethics.
- **Course on Professional Responsibility:** This instructor-led online course is available through ASME and covers various topics, including company-specific policies and procedures, how to interpret and apply procedures, regulatory requirements, codes and standards involving safety and the environment, intellectual property, professional codes of ethics, and professional liability.
- **Two-hour seminar:** This class is designed to meet continuing training requirements for all engineers, and is typically conducted in a lunch or dinner format. It features interactive discussion, a videotape presentation or role-play, and a focus on technical decisions that engineers must make in the workplace.
- **Henry's Daughters DVD:** A case study on engineering ethics, including resource material, that is available free of charge for sections to borrow.

Center for Public Awareness

- **History & Heritage:** The ASME History & Heritage Program fosters the history and heritage of mechanical engineering. ASME's Landmarks program serves as a means to familiarize you with mechanical engineering history by providing meaningful historical references and by celebrating the past achievements of mechanical engineers. Presents an annual Engineer-Historian Award. Archives oral histories by ASME Past Presidents.
- **Pre-college education services:** Partnership opportunities to help teachers and engineers strengthen the science, technology, engineering and mathematics skills of young people and assist them in becoming more aware of the important role engineering plays in their lives. Participation in Engineers Week.
- **Guidance & Curriculum Materials:** Video pamphlets, DVDs and web sites to inform students, parents, teachers, counselors and administrators about the wide scope of engineering, with a particular focus on mechanical engineering.
- **Strategic Partnerships:**
 - **Boy Scouts:** Supporting more than 300 local councils that provide quality youth programs, including Cub Scouting, Boy Scouting and Venturing.
 - **Girl Scouts:** Discovering key values, building leadership skills & taking action by applying these values & skills to their everyday lives, plus learning hands-on engineering skills!
 - **FIRST (For Inspiration and Recognition of Science & Technology):** An exciting, multinational competition that teams professionals and young people to solve an engineering design problem in an intense and competitive way.
 - **JETS (Junior Engineering Technical Society):** Providing real-world engineering insight and challenges for high school students.
 - **EWB (Engineers Without Borders):** Assisting developing communities to improve their quality of life while training internationally responsible engineers and engineering students.
 - **PLTW (Project Lead the Way):** Partnering with middle and high schools to provide a rigorous, relevant engineering classroom education for pre-college students.