

About the Penn State College of Engineering

Established in 1896, the College of Engineering is one of Penn State's oldest academic colleges. Since its inception, the college has maintained a strong tradition as one of the country's leading educators of engineers.

World-Class Engineers

The college's educational vision centers on preparing students to become world-class engineers. In short, Penn State engineering graduates will be:

- aware of the world
- solidly grounded
- technically broad
- effective in teams
- innovative
- effective as leaders

Strategic Goals

As part of its effort to become one of the premier engineering institutions in the country, the college has developed a five-year strategic plan for 2009–13. Its objectives include:

- attracting and developing an outstanding and diverse faculty, student body, and staff
- implementing the college's vision of a "world-class engineer," emphasizing student experiences in globalization, innovation, and leadership
- strengthening the graduate program
- emphasizing research efforts in energy and the environment, health care, new materials applications, cyber infrastructure, and civil infrastructure
- enhancing outreach to the state, nation, and world

Fall 2009 Enrollment

Department	B.S.	Master's	Ph.D.
Acoustics	-	41*	38
Aerospace Engineering	235	47	50
Architectural Engineering	329	23	23
Bioengineering	108	5	23
Biological Engineering	78	-	-
Chemical Engineering	331	4	71
Civil and Environmental Engineering	515	61	48
Computer Science and Engineering	303	44	174
Electrical Engineering	394	88	143
Engineering Science and Mechanics	77	28	78
Industrial and Manufacturing Engineering	347	74	97
Mechanical and Nuclear Engineering	831	94*	139
Quality and Manufacturing Management	-	28	-
Undeclared Major	2,281	-	-
Subtotal	5,829	508	884
Other Campuses	2,449	37	-
Total	8,278	574	884

*Figure includes students enrolled through World Campus

World Campus Enrollment

Major	Master's	Nondegree
Acoustics	29	46
Nuclear Engineering	55	69
Total	84	115

Student Body

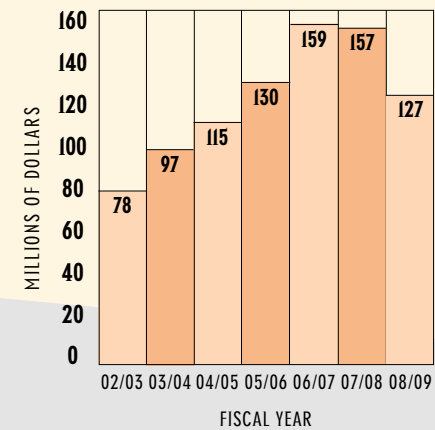
Undergraduate Enrollment

- Engineering women: 1,202
- Engineering students from underrepresented groups: 508
- University Park (total students): 38,630
- Other Penn State campuses (total students): 31,813

Graduate Enrollment

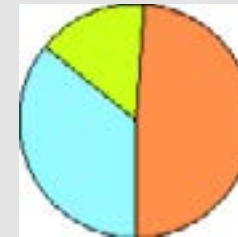
- Engineering women: 278
- Engineering students from underrepresented groups: 37
- University Park (total students): 6,202

Engineering Endowment Value (in millions of dollars)

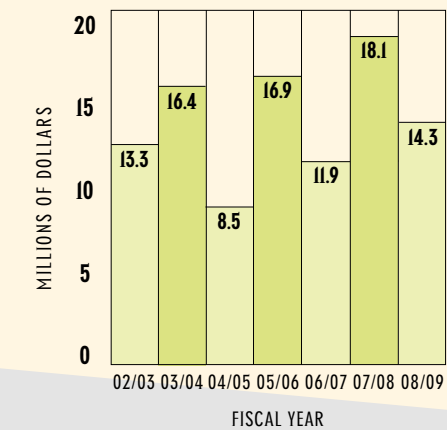


Who Supported the College (2008–09)

- Corporations \$5,120,608
- Foundations and Organizations \$2,183,008
- Alumni and Friends \$6,925,655

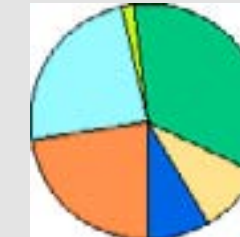


Gift Support (in millions of dollars)



Where Donations Were Designated (2008–09)

- Research \$3,256,395
- Scholarships \$3,457,798
- Faculty Support \$231,101
- Other Purposes (Program Support, General Use) \$4,840,453
- Fellowships \$1,380,927
- Equipment \$1,210,533



Current Engineering Alumni with Active Records (by state)

(effective 1/19/2010)

- Other Areas:
- North America (excluding U.S.)—144
- South America—77
- Europe—173
- Asia—1,554
- Africa—68
- Australia—13
- U.S. Territories—91
- Overseas Military—108



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COLLEGE OF ENGINEERING



FACTS 2010–11



Undergraduate Facts

—Twenty-five percent of the University’s Schreyer Honors College students are engineering majors.

—Each year, more than 1,000 unique companies come to the University Park campus specifically to recruit Penn State Engineering students.

—The average engineering class size is 34 students.

Graduate Facts

—940 graduate students in engineering receive support through assistantships or fellowships.

—The college ranked 18th nationally in the number of graduate students enrolled, 20th in the number of master’s degrees granted, and 10th in the number of doctoral degrees granted.

U.S. News & World Report Rankings

—Overall undergraduate program: 17 (2009)

—Three undergraduate programs ranked in the top 10 percent of all undergraduate programs nationally (Civil, Industrial, and Mechanical).

—Overall graduate program: 23 (2009)

—The Industrial Engineering graduate program is ranked in the top 10 percent of all doctoral degree-granting programs nationally.

For individual programs and the latest rankings, please go to: www.engr.psu.edu/AboutCOE/rankings.aspx

Academic Departments

Acoustics*
Victor Sparrow, interim chair
814-865-6364
www.acs.psu.edu

Agricultural and Biological Engineering
Roy Young, head
814-863-1524
www.abe.psu.edu

Aerospace Engineering
George Lesieutre, head
814-865-6432
www.aero.psu.edu

Bioengineering
Herbert Lipowsky, head
814-863-6614
www.bioe.psu.edu

Architectural Engineering
Chimay Anumba, head
814-863-2078
www.engr.psu.edu/ae

Chemical Engineering
Andrew Zydny, head
814-865-2574
www.che.psu.edu

Civil and Environmental Engineering
Peggy Johnson, head
814-863-3087
www.engr.psu.edu/ce

Computer Science and Engineering
Raj Acharya, head
814-865-9505
www.cse.psu.edu

Electrical Engineering
W. Kenneth Jenkins, head
814-863-2788
www.ee.psu.edu

Engineering Science and Mechanics
Judith Todd, head
814-865-4523
www.esm.psu.edu

Industrial and Manufacturing Engineering
Paul Griffin, head
814-865-7601
www.ie.psu.edu

Mechanical and Nuclear Engineering
Karen Thole, head
814-863-1503
www.mne.psu.edu

School of Engineering Design, Technology, and Professional Programs (SEDTAPP)
Sven Bilén, interim head
814-865-7589
www.sedtapp.psu.edu

Other Programs

Quality and Manufacturing Management*
Robert Voigt, co-director
814-863-7290
www.smeal.psu.edu/qmm

Surveying Engineering
Wes Parks, director
570-675-9213
<http://surveying.wb.psu.edu>

Majors

Acoustics*

Aerospace Engineering

Architectural Engineering

Bioengineering

Biological Engineering

Chemical Engineering

Civil Engineering

Computer Engineering

Computer Science

Computer Science and Engineering*

Electrical Engineering

Engineering Mechanics*

Engineering Science

Engineering Science and Mechanics*

Environmental Engineering*

Industrial Engineering

Mechanical Engineering

Nuclear Engineering

Quality and Manufacturing Management*

Minors

Agricultural and Biological Engineering

Bioengineering

Computational Science*

Engineering Entrepreneurship

Engineering Leadership Development

Engineering Mechanics

Environmental Engineering

Information Sciences and Technology for Aerospace Engineering

Information Sciences and Technology for Industrial Engineering

Nanotechnology

Product Realization

Science, Technology, and Society

Six Sigma

Certificate Programs

Engineering and Community Engagement

Engineering Design

Housing

International Engineering

Space Systems Engineering

Degrees Offered Through Distance Education

Acoustics*

Nuclear Engineering*

Postbaccalaureate Credit Certificate Programs

Computer and Network Security

Human Factors Engineering and Ergonomics

Laser-Materials Processing

Academic Services

Academic Programs
Renata Engel, Associate Dean for Academic Programs
814-863-3750, rsei@psu.edu
www.engr.psu.edu/Prospective_Students/Undergraduate

Engineering Advising
Jean Landa Pytel, Assistant Dean for Student Services
814-865-7539, jlpdo@engr.psu.edu
www.engr.psu.edu/AdvisingCenter

Engineering Career Resources and Employer Relations
Rick McClintic, Director
814-863-1032, rdmcp@engr.psu.edu
www.engr.psu.edu/career

Multicultural Engineering Program
Amy Freeman, Assistant Dean of Engineering Diversity
814-865-7138, afreeman@engr.psu.edu
www.engr.psu.edu/mep

Women in Engineering Program
Amy Freeman, Assistant Dean of Engineering Diversity
814-863-1080, wep@engr.psu.edu
www.engr.psu.edu/wep

Continuing and Distance Education
Terry J. Reed, Director
814-865-7643, tjr10@psu.edu
www.engr.psu.edu/cde

Faculty

Full-time tenured and tenure-track engineering faculty at University Park: 248

Percent of women engineering faculty at University Park: 16.2

Percent of minority engineering faculty at University Park: 6.4

Full-time engineering faculty at other Penn State campuses: 86

Student/faculty ratio: 21:1

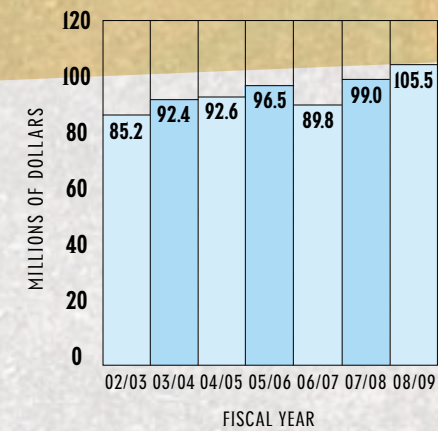
Percent of undergraduate engineering courses taught by full-time faculty: 89

49 engineering faculty members hold endowed chairs or professorships or the rank of distinguished professor.

Research

Office of Research and Administration
Anthony Atchley, Associate Dean for Research and Administration
814-865-2151, aaa9@psu.edu
www.engr.psu.edu/Research

Research Expenditures (in millions of dollars)



Major College Research Units, Centers, and Initiatives

Center for Acoustics and Vibration

Center for Engineering Design and Entrepreneurship

Center for Electronic and Photonic Devices

Center for Electro-Optics Research

Center for Information and Communications Technology Research

Center for Innovative Sintered Products

Center for Integrated Healthcare Delivery Systems

Center for Intelligent Information Processing

Center for Manufacturing Enterprise Integration

Center for Multiscale Wave-Materials Interactions

Center for Nanotechnology Education and Utilization

Center for Neural Engineering

Center for Research in Engineering Design

Center for Service Enterprise Engineering

Center for Sustainability

Communications and Space Sciences Laboratory

Computational Electromagnetics and Antennas Research Laboratory

Electrochemical Engine Center

Embedded and Mobile Computing Design Center

High-Pressure Combustion Laboratory

Indoor Environment Center

Mid-Atlantic Clean Energy Application Center

Mid-Atlantic Solar Resource and Training Center

Networking and Security Research Center

Penn State Gas Dynamics Laboratory

Penn State Vertical Lift Research Center

Pennsylvania Housing Research Center

Propulsion Engineering Research Center

Protective Technology Center

Radiation Science and Engineering Center

Ultrasonics Laboratory

Interdisciplinary Research Units

Applied Research Laboratory

The Huck Institutes of the Life Sciences

Institute for CyberScience

Materials Research Institute

Penn State Institutes of Energy and the Environment

Major Engineering Educational Units

Leonhard Center for the Enhancement of Engineering Education

The Bernard M. Gordon Learning Factory

Alumni

—More than 81,000 living engineering alumni

—Oldest active University alumni group, the Penn State Engineering Alumni Society, established in 1959

Jennifer Theiss, Coordinator of Alumni Relations
814-863-3384, jtheiss@engr.psu.edu

www.engr.psu.edu/AlumniFriends

Giving

John Dietz Jr., Director of Development
814-863-3848, jld5@psu.edu

www.engr.psu.edu/GivingOpportunities

Administration

David N. Wormley, Harold and Inge Marcus Dean of Engineering
814-865-7537, dnwdo@engr.psu.edu

Anthony Atchley, Associate Dean for Research and Administration
814-865-2151, aaa9@psu.edu

Renata Engel, Associate Dean for Academic Programs
814-863-3750, rsei@psu.edu



* Graduate degree only