

# Snapshot

ENGINEERING  
DESIGN AND  
INNOVATION



## Our Mission

At Penn State, we believe that engineering education should prepare students for today's competitive global workplaces.

Students must graduate with practical engineering experiences that enable them to contribute quickly and in meaningful ways that align with the goals of their future employers.

The School of Engineering Design and Innovation (SEDI) delivers effective engineering education through active, collaborative, project-based, and professionally oriented experiences. SEDI offers a variety of programs that partner faculty, students, and industry in real-life engineering problems with innovative solutions.

**\$1.5**  
MILLION

**2020-21  
Research  
Expenditures**

Research expenditures  
include subcontracts and  
internally funded projects.



## Programs and Initiatives

Engineering Design

Engineering  
Entrepreneurship

Engineering  
Leadership  
Development

Engineering  
Technology and  
Commonwealth  
Engineering

First-Year  
Engagement

Humanitarian  
Engineering  
and Social  
Entrepreneurship

Professional  
Programs Outreach

Law, Policy, and  
Engineering

**14**

Campuses, including  
Penn State World  
Campus, offer SEDI  
engineering and  
engineering technology  
degrees, minors, and  
certificates



**1,537**

**Average number of students enrolled  
in EDSGN 100 per academic year at  
University Park**

(Five-year average from fall 2016 to fall 2021)



## Research Labs:

Britelab  
 DREAMs Lab  
 DJSD Lab  
 Made by Design Lab  
 Mechanism Collective  
 OPEN Lab  
 PILOT Lab  
 Systems Design Lab  
 THRED Group  
 Wagner Lab

## Grants received by SEDI faculty in last six years\*

NSF: 22	NASA: 9
NIH: 5	National Academies: 2
DARPA: 3	Industry: 9
Air Force: 4	

\*SEDI faculty serve as investigators or co-investigators



# 721



Number of students who participated in global experiences offered through SEDI courses in the past six years

## Degrees, Minors, and Certificates

### GRADUATE OFFERINGS:

- Doctor of Engineering (D.Eng.)
- Master of Engineering in Engineering Design (M.Eng.)
- Master of Science in Engineering Design (M.S.)
- Master of Engineering in Engineering Leadership and Innovation Management (M.Eng.)
- Master of Engineering in Engineering, Law, and Policy (M.Eng.)
- Graduate Minor in Engineering, Law, and Policy
- Graduate Minor in Engineering Leadership and Innovation Management
- Graduate Certificate in Engineering Leadership and Innovation Management

### UNDERGRADUATE OFFERINGS:

- Engineering (B.S.)
- Electro-Mechanical Engineering Technology (B.S.)
- Surveying Engineering (B.S.)
- Biomedical Engineering Technology (A.S.)
- Electrical Engineering Technology (A.S.)
- Mechanical Engineering Technology (A.S.)
- Surveying Engineering Technology (A.S.)
- Engineering Design Minor
- Engineering Leadership Development Minor
- Social Entrepreneurship Cluster of the Intercollege Minor in Entrepreneurship and Innovation
- Technology-Based Entrepreneurship Cluster of the Intercollege Minor in Entrepreneurship and Innovation
- Certificate in Engineering Community Engagement
- Certificate in Engineering Design
- Certificate in Engineering Design with Digital Tools

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Faculty

## SEDI Maker Spaces

Design studios  
 Fabrication and assembly shops  
 Computer labs  
 3D modeling  
 3D printing  
 3D scanning



## Research Centers and Facilities:

Center for Research in Design and Innovation  
 Integrated Design Solutions

[sedi.psu.edu](http://sedi.psu.edu)

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**PennState**  
 College of Engineering

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 AND INNOVATION**