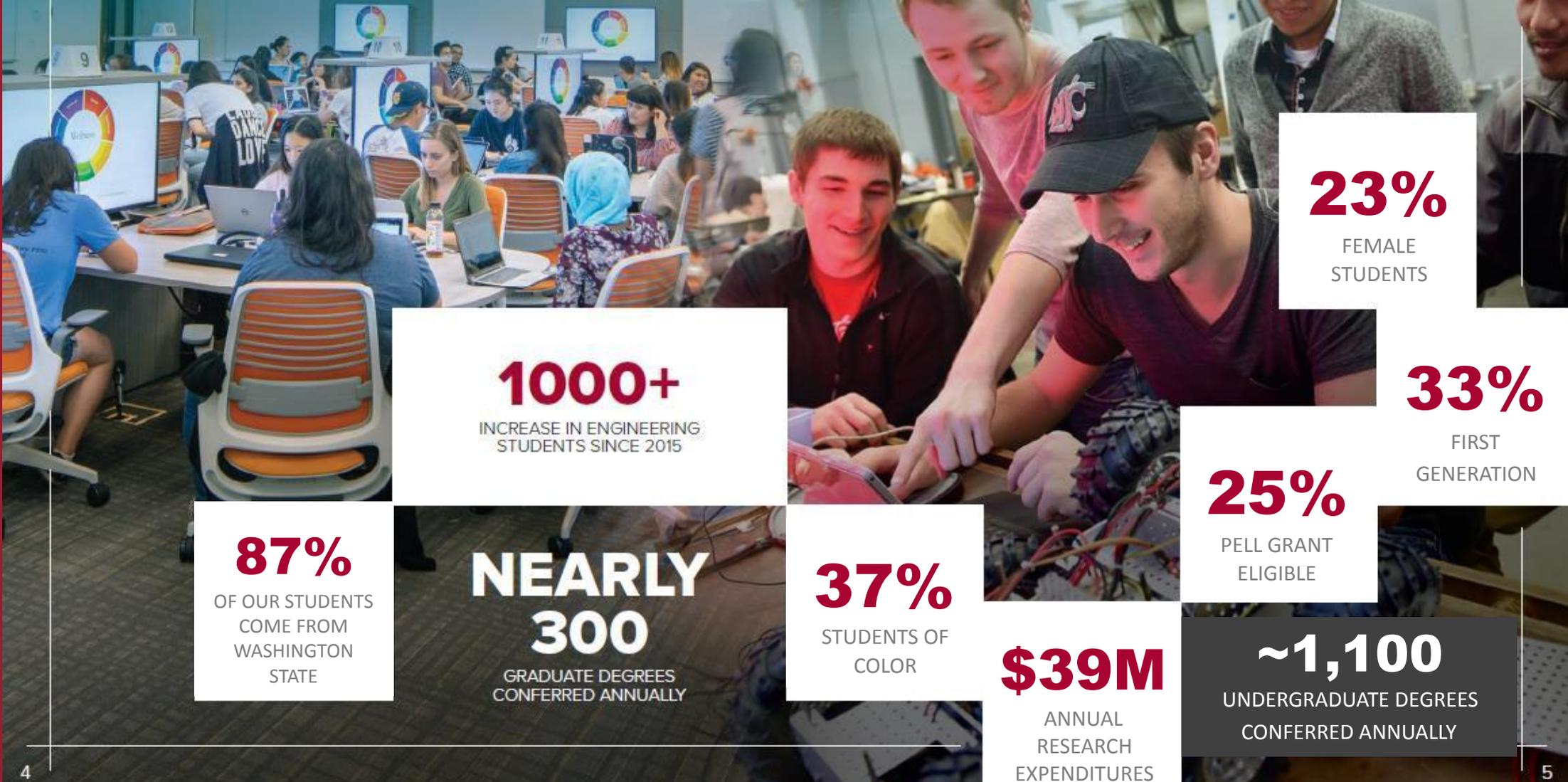


State of VCEA

Partha Pratim Pande
Dean



Now offering more than 29 fields of study, the WSU's College of Engineering and Architecture provides a pathway to education for nearly **6000 students every year.**



23%
FEMALE STUDENTS

1000+
INCREASE IN ENGINEERING STUDENTS SINCE 2015

33%
FIRST GENERATION

87%
OF OUR STUDENTS COME FROM WASHINGTON STATE

NEARLY 300
GRADUATE DEGREES CONFERRED ANNUALLY

37%
STUDENTS OF COLOR

25%
PELL GRANT ELIGIBLE

\$39M
ANNUAL RESEARCH EXPENDITURES

~1,100
UNDERGRADUATE DEGREES CONFERRED ANNUALLY



7

Regents Professors



NATIONAL ACADEMY OF ENGINEERING

3

Members



31

Early Career Award Winners

WASHINGTON STATE Academy of Sciences

13

Members

37 Faculty Fellows



VCEA Units

- School of Electrical Engineering and Computer Science (EECS)
- School of Mechanical and Materials Engineering (MME)
- Voiland School of Chemical Engineering and Bioengineering (VSCEB)
- School of Design and Construction (SDC)
- Department of Civil and Environmental Engineering (CEE)
- School of Engineering and Applied Sciences (SEES), Tri-Cities
- School of Engineering and Computer Science (ENCS), Vancouver



Research Enterprise



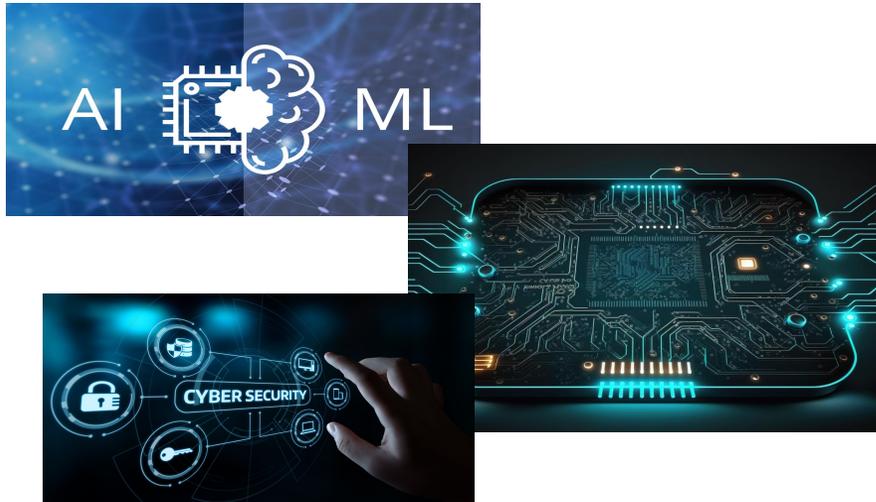
VCEA Research Breakthroughs

Energy



Sustainable Built Environment

Safe & Secure Technologies



Engineering & Design for Health



US News & World Report Rankings: Departments

Engineering	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Electrical	72	60	77	66	66	74	59	55	58	66	63	58	65
Civil	61	56	47	53	56	50	55	56	64	65	54	64	63
Material Science	53	49	45	43	45	46	50	57	54	54	66	65	57
Mechanical	72	57	57	66	61	57	70	65	76	77	69	71	77
Chemical	70	81	81	82	74	84	61	75	84	73	69	72	67



Every Campus and Unit Plays a Role



Measuring Our Research Excellence

Increasing the number of big center-scale research grants and establishing new centers
NSF ERC, DARPA JUMP, Expedition, NSF Engine, NSF AI Institute.....

Measurement of Research Productivity
Grants complemented with top-tier publications
Graduate student awards

Visibility to greater external community
National academy members, Society fellows,

Productive Relationship with Industry
More effective collaboration with industries
Start-Up from VCEA (Entrepreneurial culture)

Become the leading college academically (faculty, discovery, research, creativity).



Voiland College is excited to welcome

18

new faculty

for the 2024–25 academic year



WASHINGTON STATE UNIVERSITY
**Voiland College of
Engineering and Architecture**



vcea.wsu.edu

Student Success and Belonging



Keys to Improving Student Retention



- **Identify** struggling students early
- **Support** struggling students
- **Engage** all students
- **Improve** advisor knowledge
- **Creation** of eFIG
- **Vigorously fundraise for** student activities
- **Track progress** with the student success team
- **Full-ride Dean's scholarships**



Evolve Curriculum To Meet Student, Industry Needs



- **NAE** recommendation
- **Challenge** as educators
- **Critically analyze** curriculum
- **Hands-on** industry-relevant and multidisciplinary curriculum
- **New programs** (e.g., Nuclear, Biomedical etc.)
- **Optimize** class sizes (keep pace with large enrollment)
- **Support** career-track faculty
- **Integrate internships** as part of the curriculum



Creating Innovative Spaces



QUESTIONS ?

