

# ENGINEERING MOMENTUM

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UVA BOARD OF VISITORS PRESENTATION

JENNIFER L. WEST, DEAN  
SCHOOL OF ENGINEERING AND APPLIED SCIENCE

SEPTEMBER 2021

# MISSION AND VISION

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## OUR MISSION

is to make the world a better place by creating and disseminating knowledge and by preparing engineering leaders to solve global challenges.

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## OUR VISION

is to be a leader among engineering schools in seizing opportunities to benefit humanity through bold research and world-class education.



# OUR CORE VALUES

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## **SOCIETAL IMPACT**

Passion for making a positive impact on the world

## **EDUCATING ENGINEERING LEADERS**

Dedication to imbuing students with technical and professional knowledge that is applied with integrity and wisdom, so they are fully prepared to be the leaders of the future

## **INNOVATION**

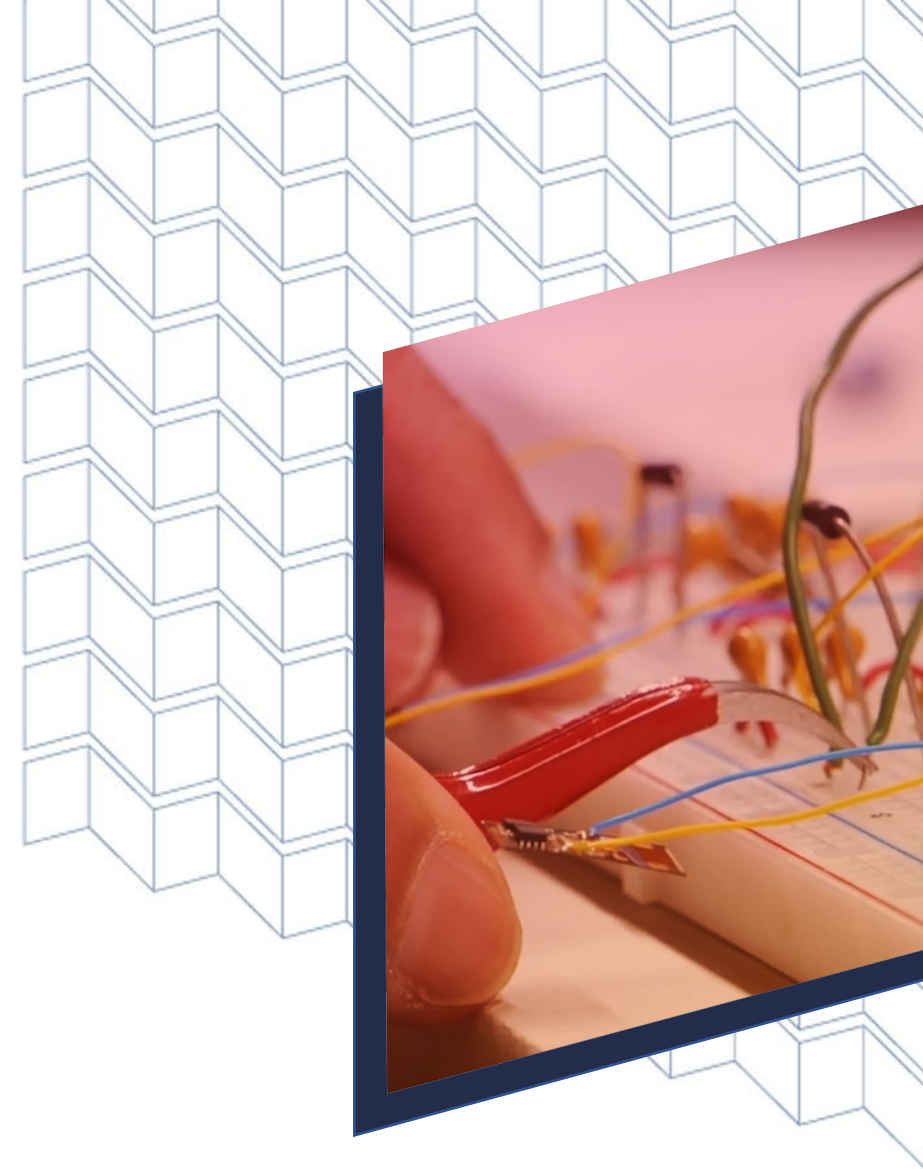
Determination to innovate, create knowledge and lead in teaching and research while abiding by the highest standards of ethics

## **EXCELLENCE THROUGH DIVERSITY**

Commitment to diversity, which we define as excellence expressing itself through every person's perspectives and lived experiences

## **COLLEGIALITY**

Marked by collaboration, teamwork and support for each other's success



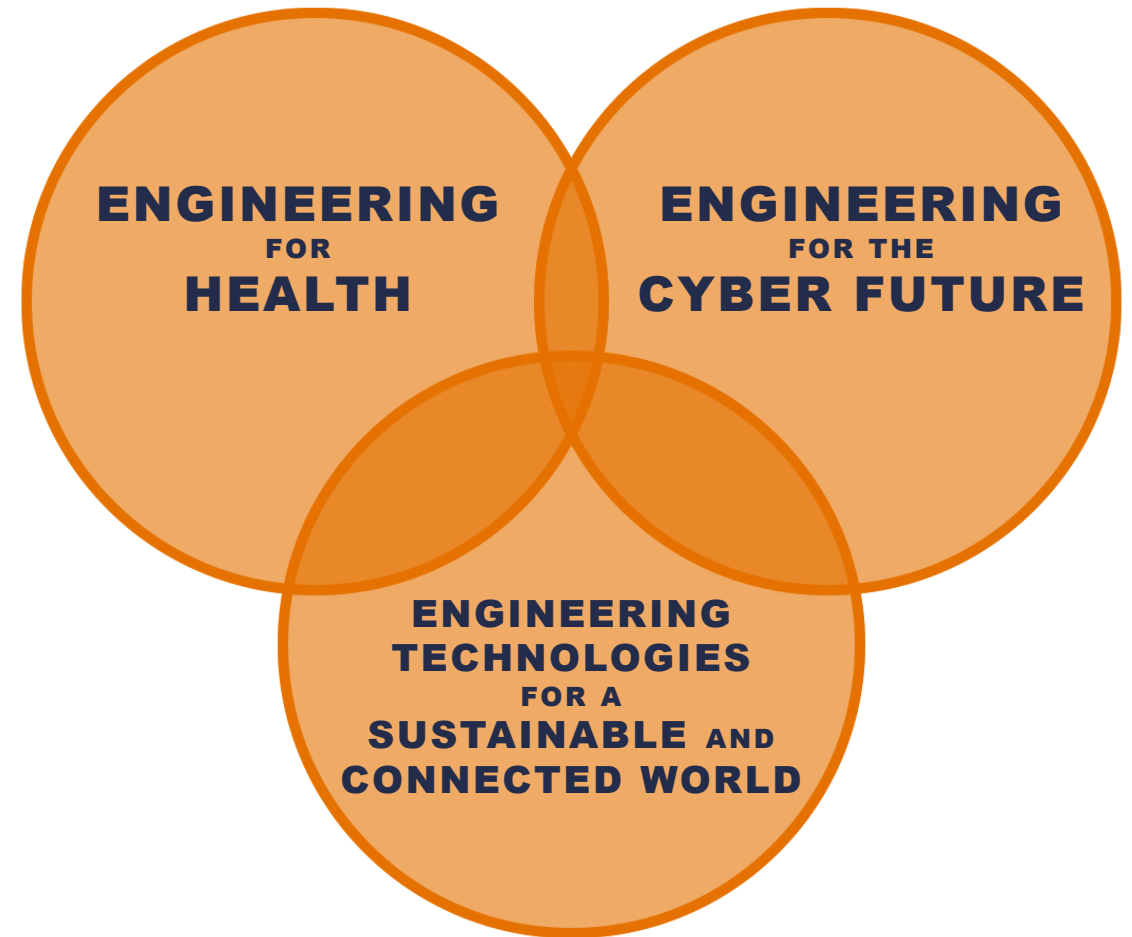
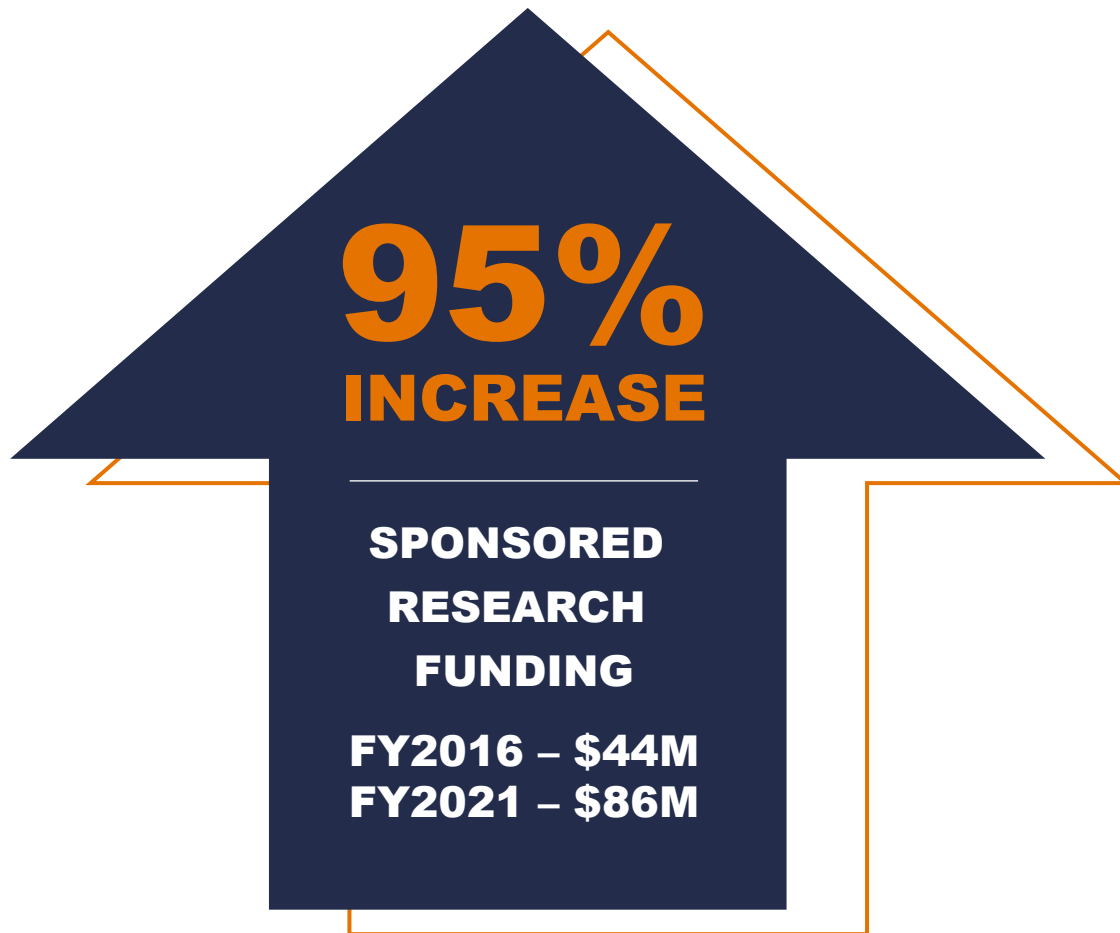


# AREAS OF STRATEGIC FOCUS

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# RESEARCH PREEMINENCE

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# DRIVERS OF RESEARCH

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TENURED AND  
TENURE-TRACK  
FACULTY GROWTH

**17%**  
INCREASE  
2014-2020

GRADUATE  
PROGRAM  
GROWTH

**64%**  
INCREASE  
2014-2020



# RANKINGS MOMENTUM

## #1

U.S. PUBLIC ENGINEERING  
SCHOOL FOR PH.D.  
ENROLLMENT GROWTH  
SINCE 2015  
AMONG USN&WR TOP-50 GRADUATE  
ENGINEERING SCHOOLS

## #21

U.S. PUBLIC ENGINEERING  
SCHOOL IN USN&WR  
GRADUATE ENGINEERING  
RANKINGS

## #2

SMALLEST PUBLIC  
ENGINEERING SCHOOL  
AMONG USN&WR  
TOP-40 GRADUATE SCHOOLS FOR  
T3 FACULTY SIZE AND GRADUATE  
ENROLLMENT  
(AVERAGE GRADUATE  
ENROLLMENT IS 2,400)

**USN&WR  
BEST ONLINE  
PROGRAMS:**

**#7** CIVIL  
ENGINEERING

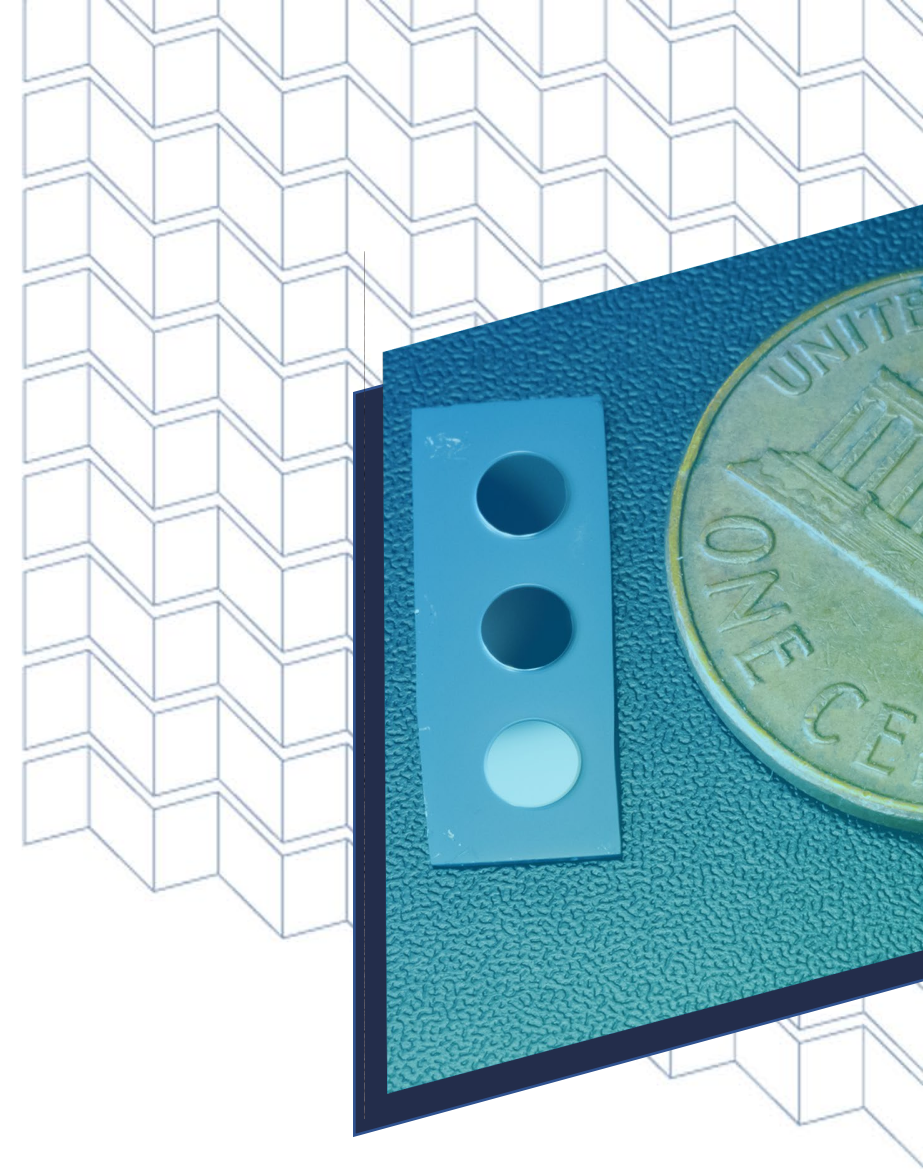
**#12** MECHANICAL  
ENGINEERING

**#15** ELECTRICAL  
ENGINEERING

# PRIORITIES FOR DRIVING RESEARCH PREEMINENCE

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- Continued tenure and tenure-track faculty growth
- Resources and infrastructure for continued faculty success
- Faculty entrepreneurship

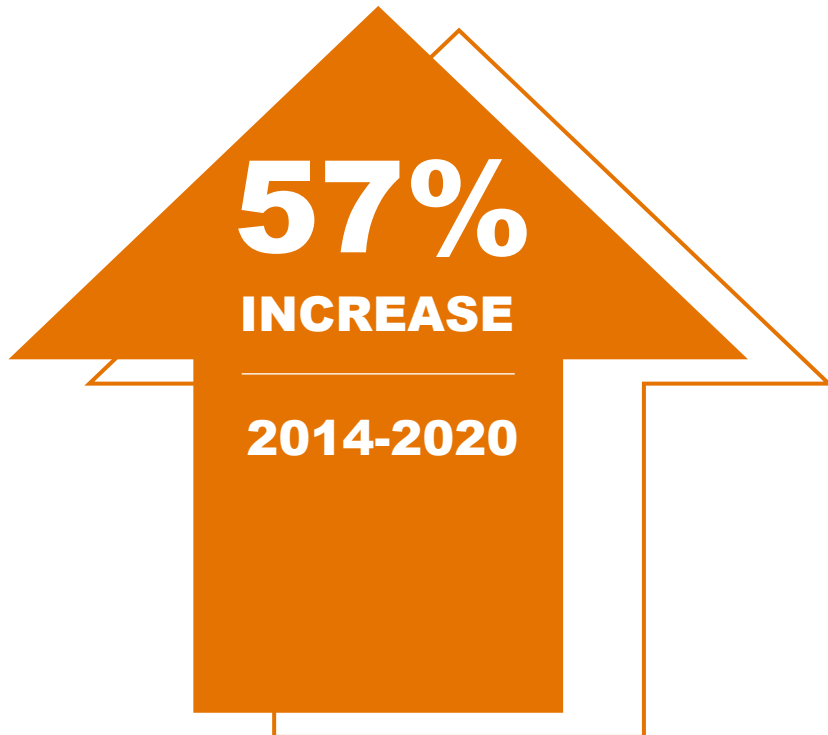




# EDUCATING ENGINEERING LEADERS

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## ACADEMIC GENERAL FACULTY GROWTH



## SUPPORT AND SUCCEED MODEL

### Embedded in engineering:

- Undergraduate success counseling
- Career services
- Center for Diversity in Engineering
- UVA Dean of Students representative
- UVA Counseling and Psychological Services

# MOMENTUM IN TEACHING AND LEARNING

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**84%**

UVA ENGINEERING  
STUDENTS WHO  
EARN BACHELOR'S  
DEGREES IN  
FOUR YEARS

**33%**

NATIONAL AVERAGE FOUR-YEAR  
GRADUATION RATE FOR  
ENGINEERING STUDENTS

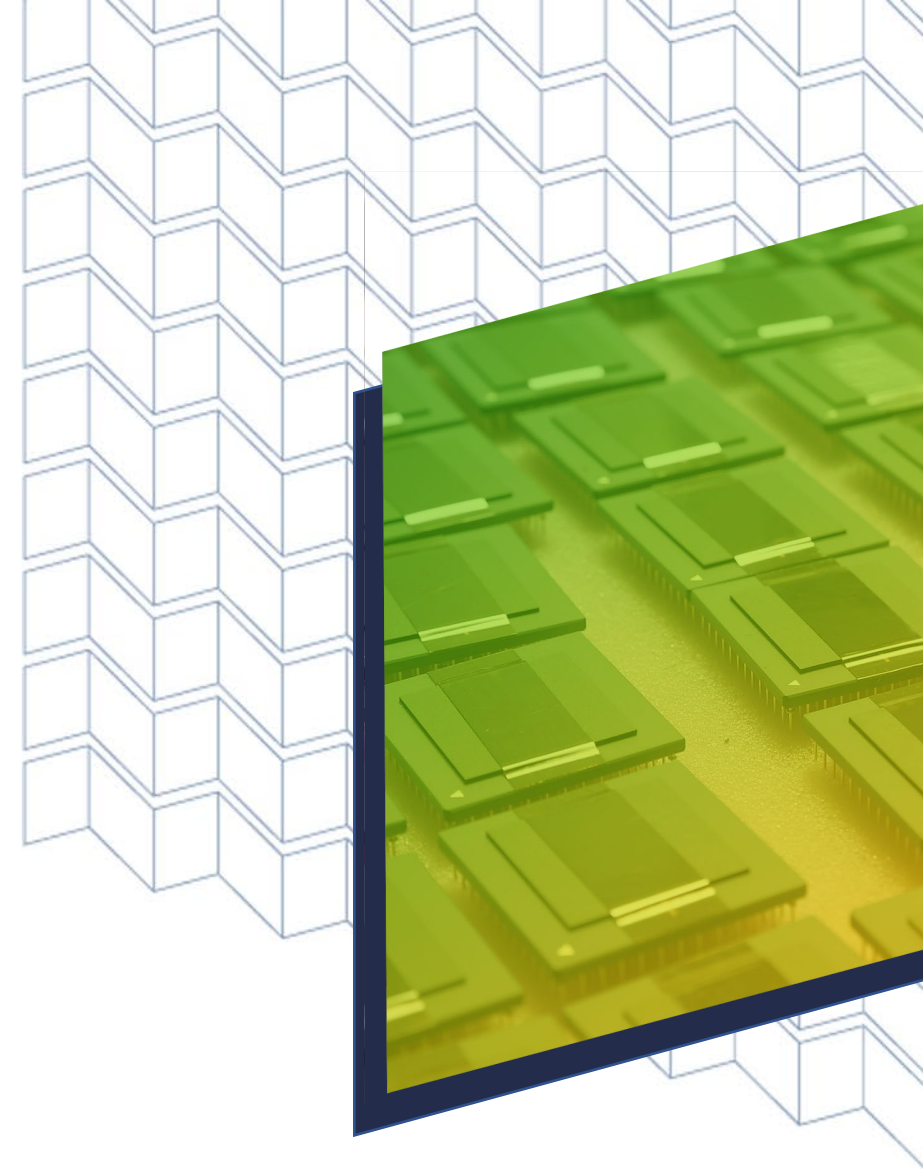
**#1**

U.S. PUBLIC ENGINEERING  
SCHOOL FOR THE  
PERCENTAGE OF WOMEN  
UNDERGRADUATES  
AMONG SCHOOLS WITH AT LEAST  
75 ENGINEERING DEGREE EARNERS

# PRIORITIES FOR ENGINEERING EDUCATION

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- Continued growth in teaching faculty
- Resources and infrastructure for teaching and learning
- Continued growth in student support services
- Experiential learning and student entrepreneurship





**UVA ENGINEERING**

**ENGINEERING.VIRGINIA.EDU**