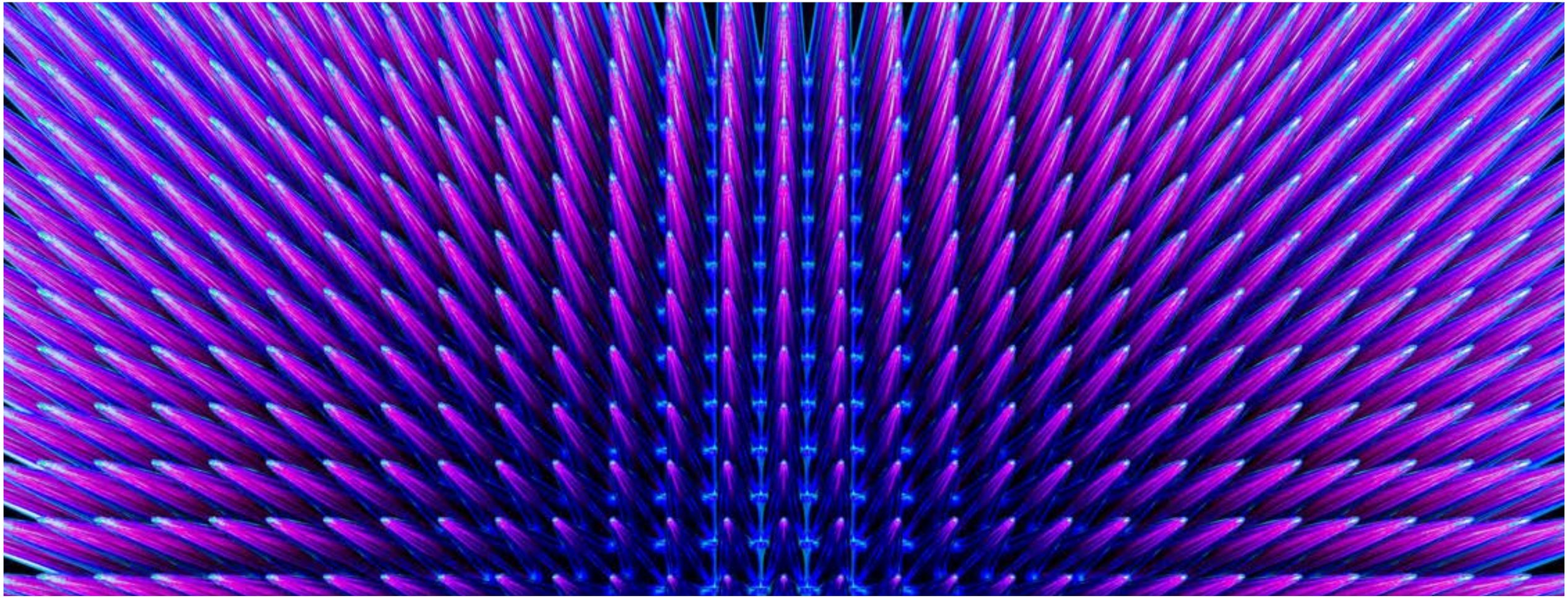
College of Engineering Brand Guidelines

March 2025

Contents

UNIVERSITY of WASHINGTON | ENGINEERING



Welcome

Make a meaningful impact at the UW College of Engineering. Located in the Pacific Northwest's hub of technology, our students receive more than an exemplary interdisciplinary education—they also have unique opportunities to apply what they learn. Join the College of Engineering, where all perspectives are valued, innovative leaders are shaped, and brilliant careers are launched to serve the public good.

Brand Positioning

UW College of Engineering is for current and prospective engineering students, faculty, and staff, and both private and public partner organizations, who need academic excellence, access to engineering resources, and opportunities for innovation, entrepreneurship, and meaningful careers.

We are a top-tier engineering program that provides engineering excellence with an inclusive and interdisciplinary approach, pioneering research and education, and immediate access to engineering industry powerhouses.

Unlike isolated engineering programs that value competition over collaboration UW College of Engineering offers a well-rounded, cross-disciplinary education connected to the largest publicly-funded medical research center in the country; the uniquely vibrant Pacific Northwest hub of technological and engineering innovation; close collaboration with students, faculty and experts within the College, across the UW campus, and in the community; and the transformational experience of solving the most pressing challenges in the world.

Our Pillars

Boundless Opportunities.

Engage with real-world engineering challenges both on and off campus. Our students and faculty collaborate with top researchers and peers, including those from our renowned UW School of Medicine and the Foster School of Business. We take learning beyond the classroom with experts worldwide, and with the Pacific Northwest's hub of engineering innovation at your doorstep, possibilities are limitless.

Life-changing Experiences.

Our students and faculty tackle the most urgent global issues of our time. We cultivate an inclusive environment where all perspectives are valued and innovative leaders are shaped. We train students to serve the public good, developing solutions to improve the quality of life for all—whether in infrastructure, technology, transportation, health, environment or manufacturing.

Excellence, Applied.

Everything we do aims to make an impact, and as one of the best engineering programs in the world, we offer an inclusive engineering experience grounded in technical excellence. Our students benefit from an exemplary interdisciplinary education at one of the world's leading research universities and medical centers, with hands-on opportunities to apply their knowledge.

Logo and lockups

It is the University's policy that the block W Logo, University wordmark, and combined signature systems are the only sanctioned marks for use across the campuses to represent the University of Washington in marketing, communications, and reputation-building work. No other marks or symbols may be used in conjunction with or to replace the official University signature logo system.

Block W

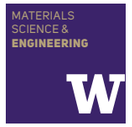
University wordmark and combined signature

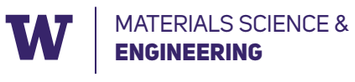
Alternate lockup is only to be used on campus—where the block W is synonymous with the university—thus eliminating the redundancy of the wordmark.

Alternate lockups and Linkedin icons

The examples to the right display the alternate lockups approved and recommended by the College of Engineering, along with their corresponding LinkedIn icons. The font styles used are Uni Sans Regular and Uni Sans Heavy.

These are recommended for use, not mandated.





The Paul G Allen School of Computer Science and Engineering has a branding agreement in place that predates these recommendations. Thus, there is a deviation in style from other department graphics.

Color

Purple evokes passionate pride. It is the color that most quintessentially represents our University and is, therefore, the dominant hue in our communications. Gold symbolizes excellence. It is a sophisticated shade that reflects our extraordinary standards and immense quality. And when you combine the two? That is the UW.

Primary

HUSKY PURPLE

PMS: 2685
CMYK: 93/100/18/21
RGB: 51/0/111
HEX: 32006e

SPIRIT PURPLE

PMS: 266
CMYK: 84/100/0/0
RGB: 75/46/131
HEX: 4b2e83

Secondary

HERITAGE GOLD

PMS: 871
CMYK: 30/35/60/0
RGB: 145/123/76
HEX: 85754d

HUSKY GOLD

PMS: 7502
CMYK: 0/13/43/13
RGB: 232/211/162
HEX: b7a57a

DARK GRAY

CMYK: 00/00/00/65
RGB: 119/120/123
HEX: 77787b

LIGHT GRAY

CMYK: 00/00/00/30
RGB: 188/190/192
HEX: bcbec0

Accent

ACCENT GREEN

PMS: 2290
CMYK: 40/0/100/0
RGB: 170/219/30
HEX: aadb1e

ACCENT TEAL

PMS: 3252
CMYK: 68/0/36/8
RGB: 42/210/201
HEX: 2ad2c9

ACCENT TEAL

PMS: 7408
CMYK: 7/21/100/0
RGB: 255/199/0
HEX: ffc700

ACCENT PINK

PMS: 232
CMYK: 0/87/0/0
RGB: 233/60/172
HEX: e93cac

ACCENT LAVENDER

PMS: 2635
CMYK: 13/19/0/11
RGB: 191/180/227
HEX: c5b4e3

Typography

Dedicated typography is a vital part of our identity. We have selected typeface families that blend universal functionality with a strikingly bold presence, further enhancing the strength of our brand through consistent use.

AaBbCc

Encode Sans Normal Light
is primarily used for headlines and call-outs

AaBbCcDd

Encode Sans Condensed Bold
is primarily used for subheads

AaBbCcDdEeFfGgHhIiJjKkLl

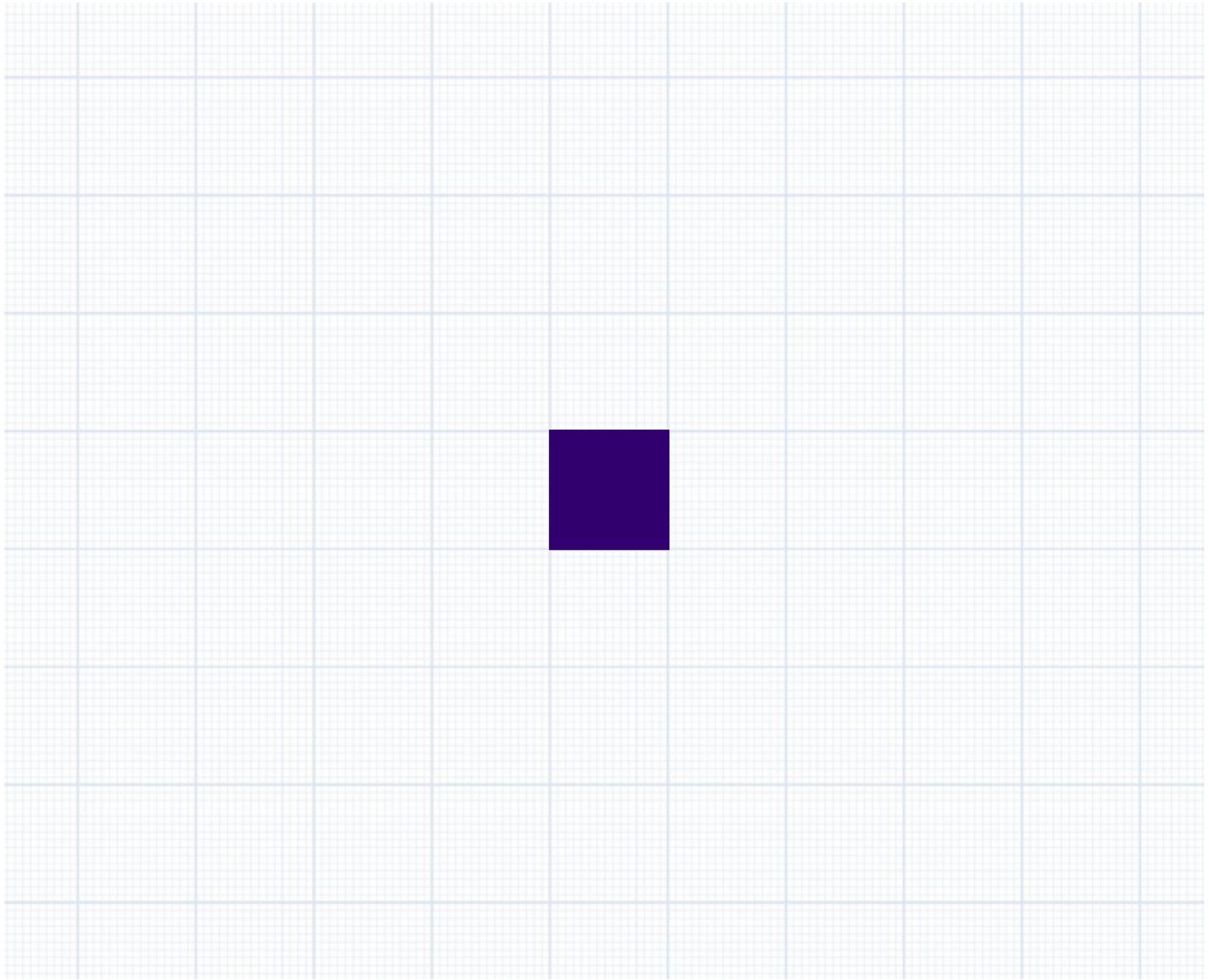
Open Sans Regular and Bold
is used for body copy

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTt

Encode Sans Compressed Regular and Bold can be used for captions or uniques instances when spacing is tight

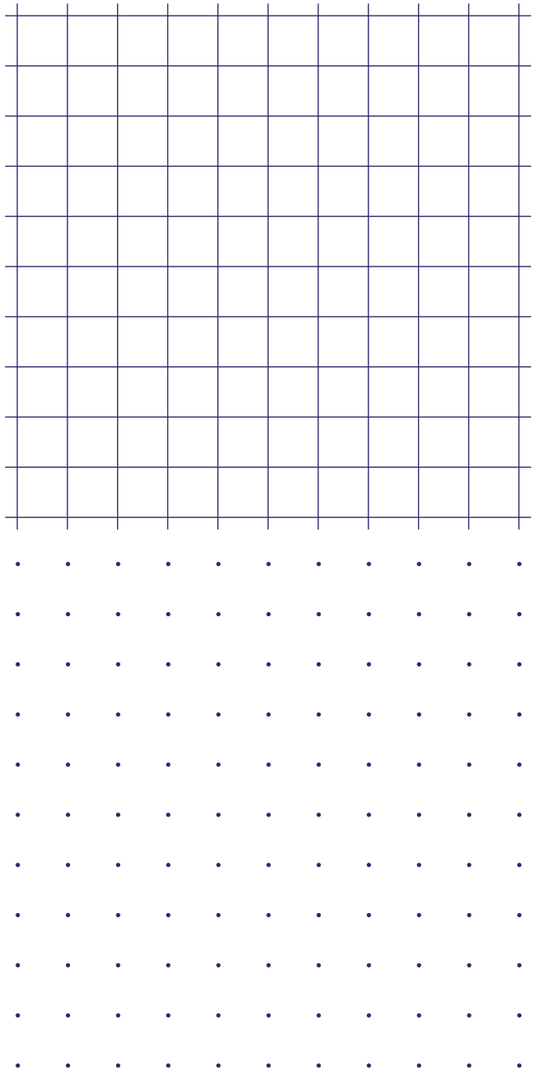
Foundation Element

The graphic language that the Engineering brand is built upon consists of the square and the square grid. In the following pages, you will see how this simple shape can be represented in many ways, providing a wide range of visual solutions.



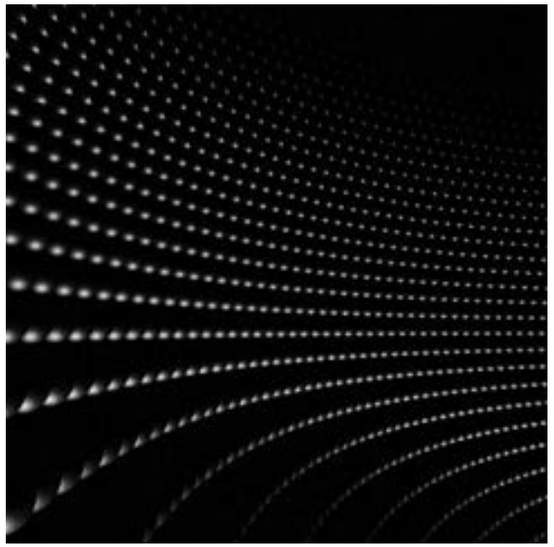
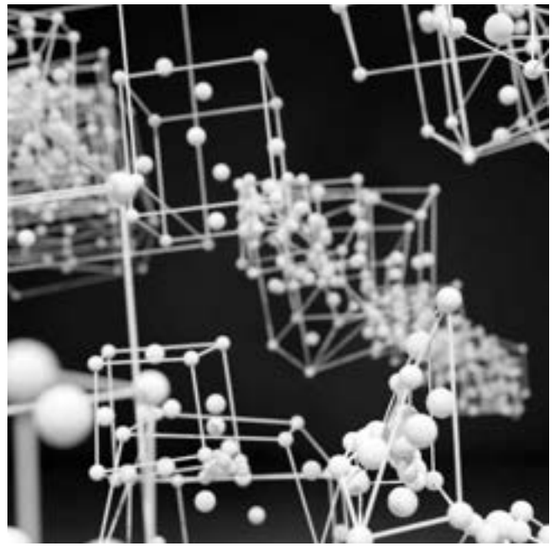
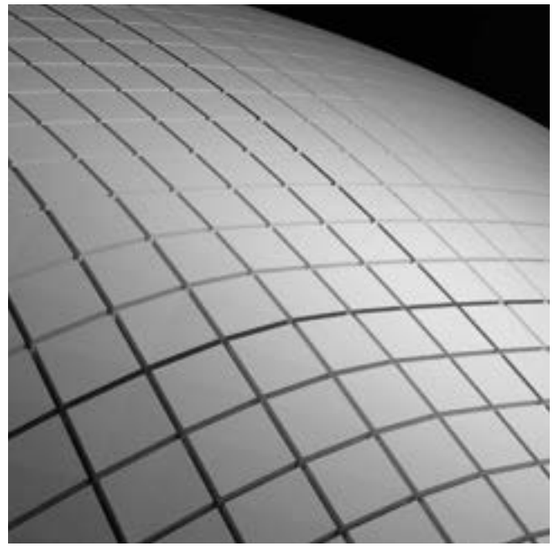
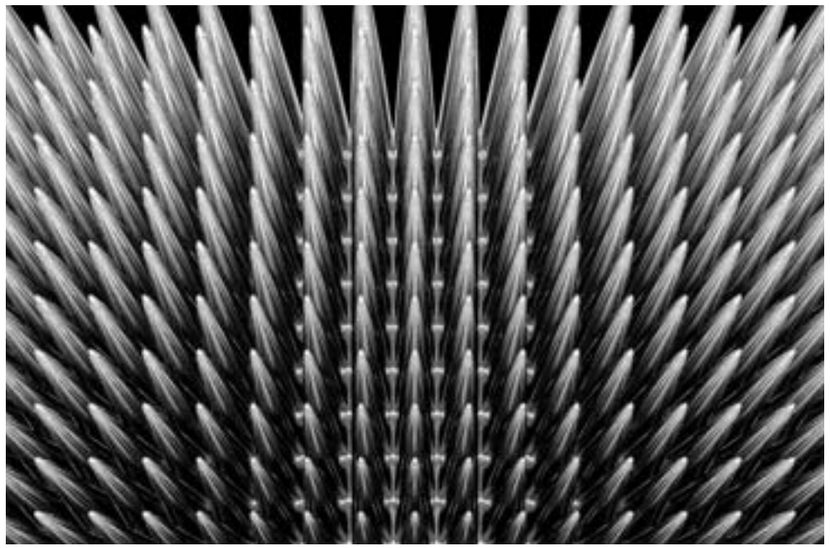
Grid Patterns

The patterns on the right are just a few examples of what can be created and utilized in our materials. They can be applied at virtually any scale and in various color combinations—ranging from high contrast to more subtle tonal shifts. However, at their core, what unifies them all is that they are built on a grid.



Photographic Grid Patterns

In addition to the grid patterns on the previous page, the college can also embrace abstract photographic grid-based patterns. These can be found in science, buildings, and even nature. These images can serve as supporting visuals when the copy is the main focus or when the subject matter lacks a relevant photo or illustration to represent the content.


Photography Subject Matter

There are two different approaches to photography that the College can utilize.

Graphic/geometric compositions
When sourcing or shooting imagery, seek bold and graphic compositions that have an underlying sense of geometry.

Journalistic lifestyle
When portraying students, faculty, and events, try to capture life candidly and naturally. Avoid forced smiles and unnatural settings; instead, opt for dynamic compositions and active participants. When possible, crop out unnecessary content so that the key subject matter is the focus of the image.

Graphic / geometric

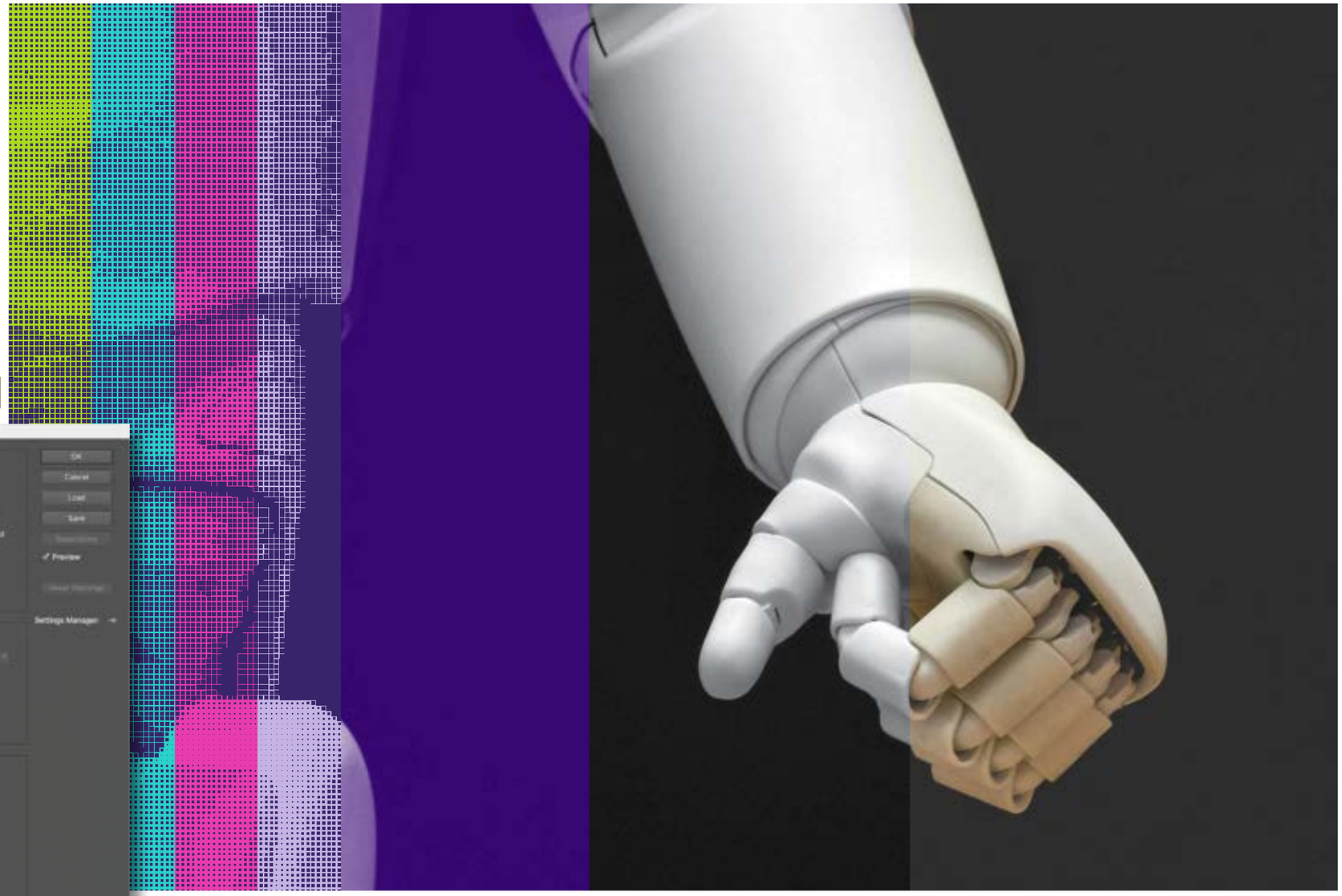
Journalistic lifestyle

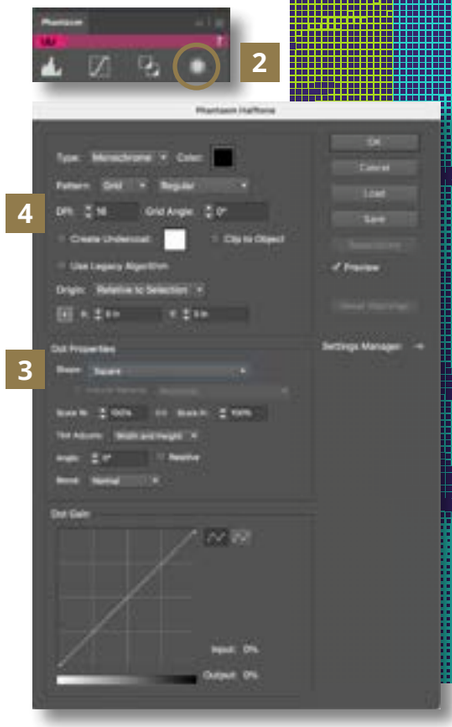
Photography Treatments

There are four different treatments that can be leveraged when using photography:

1. Full color
3. High-contrast black and white
3. Monochromatic or duotone images
4. Square halftone

Square halftone **Monochrome** **High-contrast B&W** **Full color**





How to create a square halftone image

1. Place or open a grayscale image in an Adobe Illustrator file.
2. Select the image you want to convert, then open the Phantasm window and choose the Halftone setting.
3. Select “Square” from the Shape dropdown menu.
2. Adjust the DPI settings as needed; the number you choose will depend on how large or small you want the halftone squares to appear in your document.

*Keep the grid angle at 0°, and scale settings at 100%.

Available at: https://astutegraphics.com/plugins/phantasm

3-Bar graphic

This iconic graphic element is inspired by a capital “E” but doesn’t literally represent it. Even when cropped or overlapped, this graphic remains recognizable and distinct. The spacing between the bars is equal to the width of the bars and is designed to a 4:5 ratio. See the following pages for examples of how this graphic comes to life in different uses.

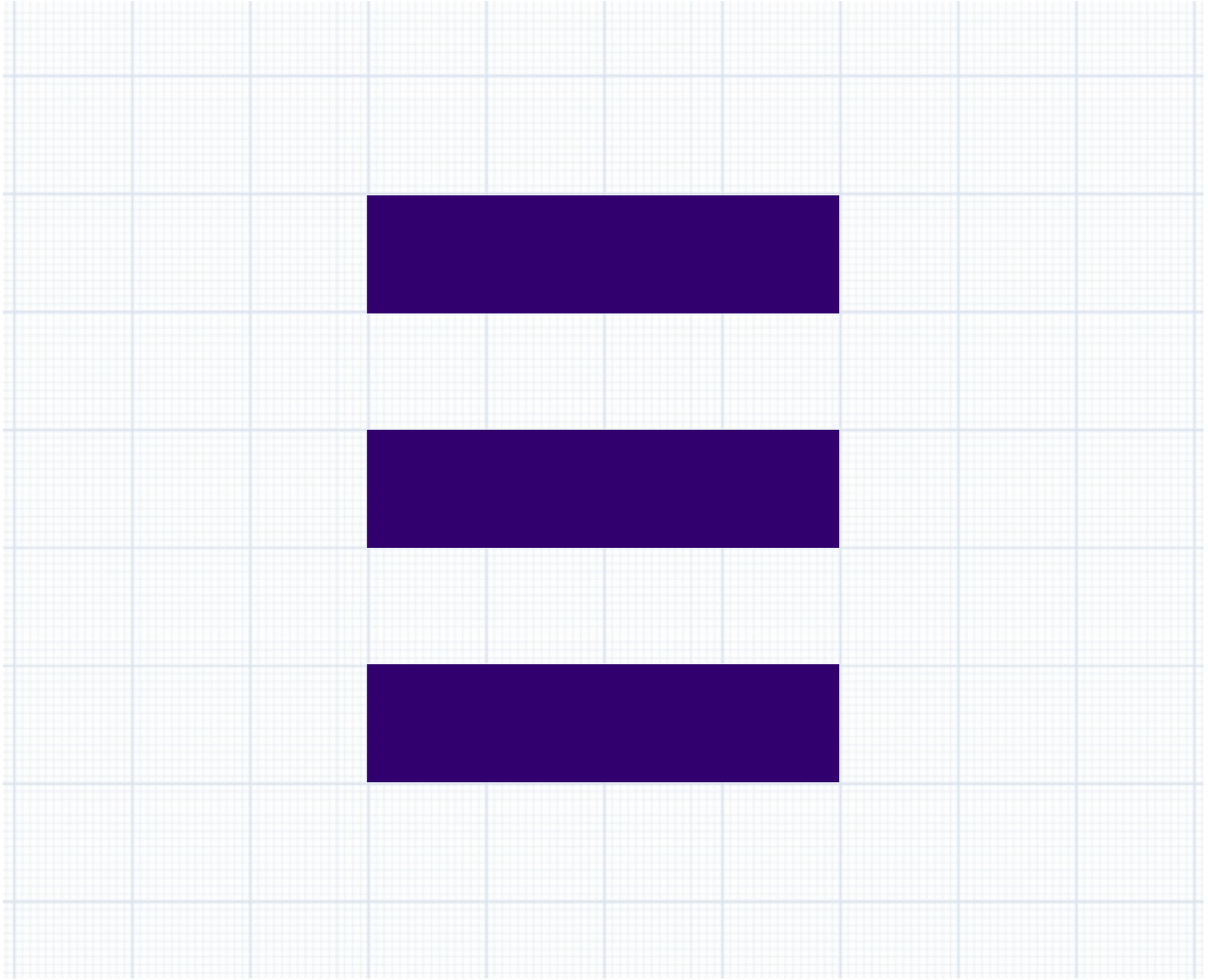
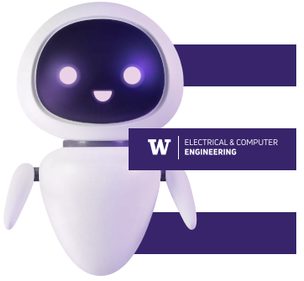


Photo-realistic Iconography

The examples on the right illustrate how departments or concepts can be depicted through iconic, futuristic, and photo-realistic imagery. The selection of imagery aims to represent a particular field of study. For images that are more literal, such as the robot hand or rotor blades, recognizable elements are utilized instead of the entire subject—reducing the literalness of the subject.



Usage Examples

Department Swag

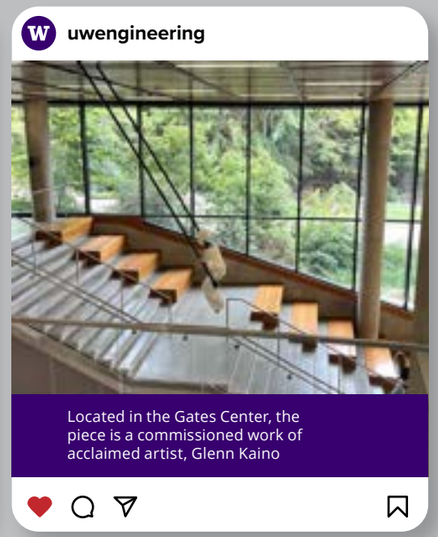
Department Swag

Presentations

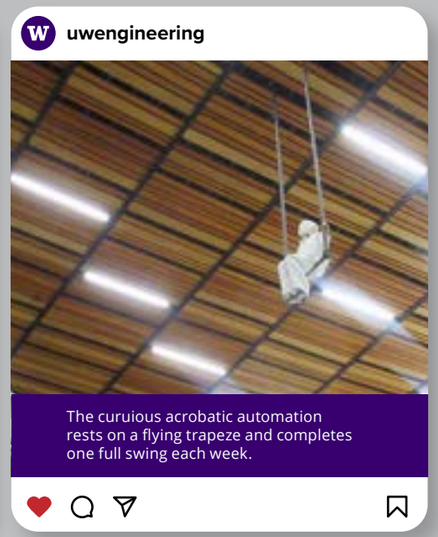
Social Templating

The 3-bar element identifies this as a post from the UW College of Engineering.

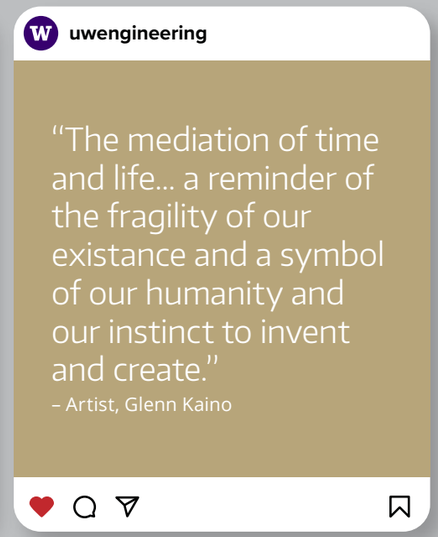
The block W—maintained in a consistent place and size—on the first slide [only] utilizes the recognizable UW branding.



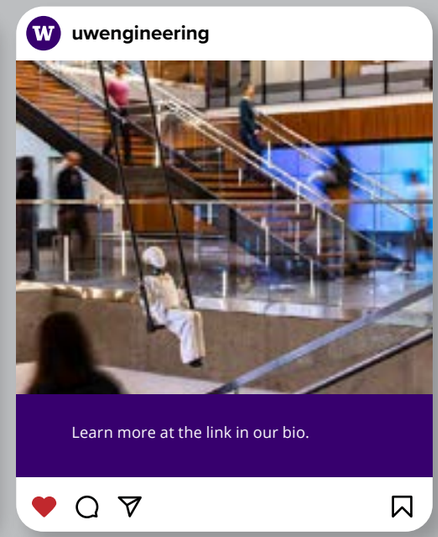
Left-aligned text is consistently set at the same size and limited to four lines. This space restriction necessitates careful copy editing, while the uniform size ensures consistency.



This template for multi-slide posts ensures continuity across the college's feed and removes the need to reinvent the wheel for each new post.



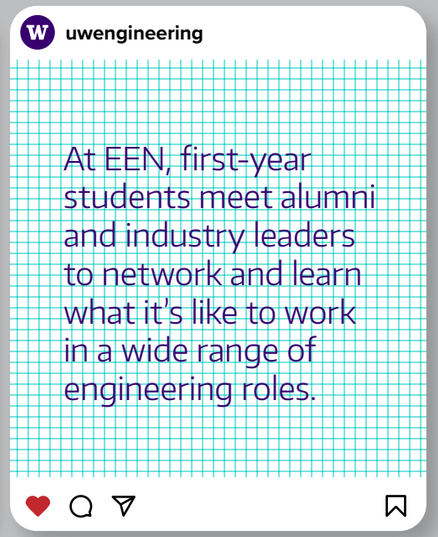
Minimalist, clean slides provide breathing space and allow the content to shine—making it easy for users to quickly digest the post.



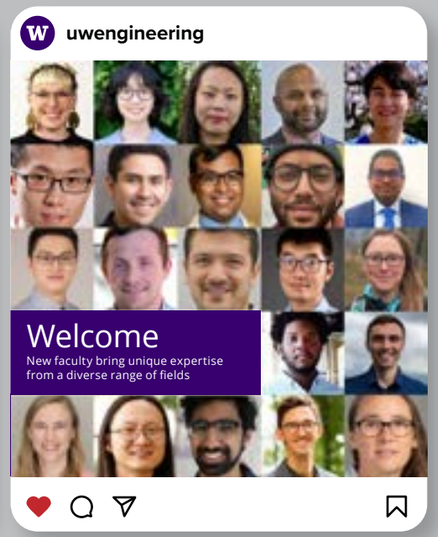
Social Examples

Using the square motif, this unremarkable map now feels more distinctly tied to the college.

A grid pattern, combined with the square halftone treatment and square photo crop, creates a recognizable Engineering post.



Examples of grid patterns utilized as complete backgrounds or subtle graphic elements.



The grid can also serve as a tool for composition and layout.

Social Feed

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Not Afraid of Falling
The new art installation
GATES CENTER FOR COMPUTER SCIENCE & ENGINEERING

uwengineering

Located in the Gates Center, the piece is a commissioned work of acclaimed artist, Glenn Kaino

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The curuious acrobatic automation rests on a flying trapeze and completes one full swing each week.

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"The mediation of time and life... a reminder of the fragility of our existance and a symbol of our humanity and our instinct to invent and create."
– Artist, Glenn Kaino

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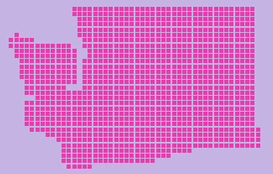
Learn more at the link in our bio.

uwengineering

Engineering's economic impact in Washington state



Check out the staggering statistics in the caption below

uwengineering

FINAL CALL TO APPLY FOR

Emerging Leaders in Engineering

+ **Ambassadors**
+ **Desgin Coaches**
+ **Peer Educators**

Apply by Monday, January 20 at 11:59 pm

uwengineering

COLLEGE OF ENGINEERING
Engineering Exploration Night 2025

uwengineering

At EEN, first-year students meet alumni and industry leaders to network and learn what it's like to work in a wide range of engineering roles.

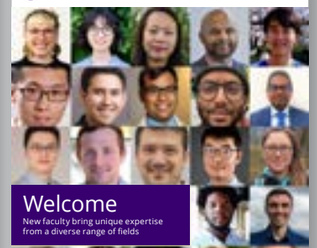
uwengineering

A huge thanks to our alumni for making Engerineering Exploration Night possible!

uwengineering

CONGRATULATIONS
Xiaodong Xu
Winner of the 2025 NAS Award for Scientific Discovery

uwengineering



Welcome
New faculty bring unique expertise from a diverse range of fields

uwengineering

ELECTRICAL & COMPUTER ENGINEERING
HuskyADAPT leads events that teach volunteers how to adapt toys for accessibliity

uwengineering

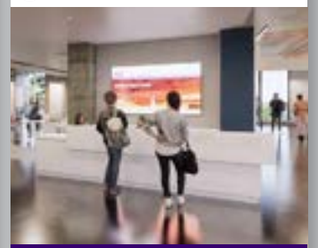
PART 1
GOOGLE QUESTIONS

Steve Muench
Professor, Department of Civil & Environmental Engineering

uwengineering

CHEMICAL ENGINEERING
Alumni, Paul Liao's legacy will live on in the lobby of the new IEB

uwengineering



The building will coalesce the College into a welcoming community, particularly for groups historically underrepresented in engineering.

uwengineering

The lobby will be named after the Liao family, who provided significant support for the new state-of-the-art learning center.

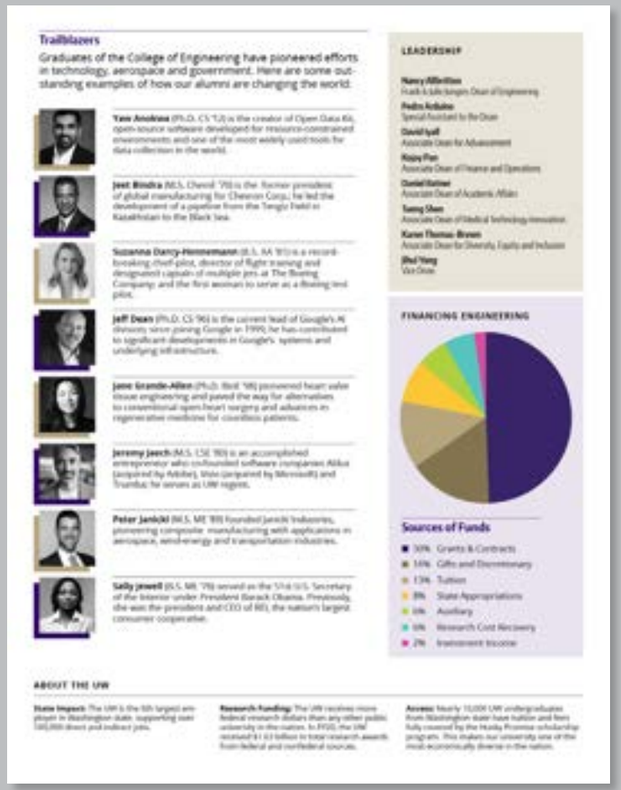
uwengineering

Learn more about Liao's life and legacy at the link in our bio.

Collateral


W | ENGINEERING
Today's challenges require innovative thinking and collaborative approaches that bridge engineering disciplines with science, law, public policy and business. Together with world-class partners, the University of Washington's College of Engineering is developing a new generation of innovators. A national leader in educating engineers, each year the College turns out new discoveries, inventions and top-flight graduates, all contributing to the strength of our economy and the vitality of our community.
Preparing the next generation of engineering leaders
The College works to ensure that students from all backgrounds succeed, from their first days on campus to their post-college careers.
Direct-To-College Admissions
Every fall the College admits a student cohort directly into engineering as freshmen in order to better prepare them for an engineering education and future careers.
STARS
The Washington State Academic Redshirt program provides highly motivated Washington state students from economically or educationally disadvantaged backgrounds with a specialized curriculum designed to build learning skills.
Career Center @ Engineering
The CCBE offers career coaching, career fairs, on-campus interviews and programming that prepares students for success in their engineering careers.
Industry capstone program
UW students and companies partner to tackle real-world, multidisciplinary engineering problems. Sponsors provide projects and support to teams of students who design innovative solutions.
18th
DEPARTMENTS & SCHOOLS
WILLIAM E. BOEING DEPARTMENT OF AERONAUTICS & ASTRONAUTICS
BIOENGINEERING
CHEMICAL ENGINEERING
CIVIL & ENVIRONMENTAL ENGINEERING
PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE & ENGINEERING
ELECTRICAL & COMPUTER ENGINEERING
HUMAN CENTERED DESIGN & ENGINEERING
INDUSTRIAL & SYSTEMS ENGINEERING
MATERIALS SCIENCE & ENGINEERING
MECHANICAL ENGINEERING


COMMITMENT TO DIVERSITY AND ACCESS
The College of Engineering is committed to developing and supporting a diverse academic and research community that reflects and elevate the populations we serve. We offer a robust set of diversity programs for students and faculty.
ADVANCE. Supports female faculty and cultural change in academic science and engineering careers.
DO-IT (Disabilities, Opportunities, Internetworking, Technology). Promotes inclusion and success for people with disabilities through technology and education.
EAC (Engineering Academic Center). Supports students in building skills in math, physics and chemistry through workshops and tutoring.
Engineering Academy. Supports rising high school seniors from diverse backgrounds who wish to study engineering in an intensive summer program.
Engineering Dean's Scholars. Supports a cohort of underserved students through a summer transition program and quarterly academic workshops.
MSEP (Minority Scholars Engineering Program). Recruits and retains underrepresented students in engineering.
PEERs (Promoting Equity in Engineering Relationships). Increases diverse participation in the College of Engineering through a 1-credit seminar and community leadership program.
STARS (Washington State Academic RedShirt in Engineering). Brings low-income, highly motivated Washington state high school graduates to the UW (and WSU) to study engineering.
WISE (Women in Science & Engineering). Provides recruitment and retention programs for women in science and engineering.
A NATIONAL LEADER
26.3% of our faculty are women compared to 18% nationally
DIVERSITY OF DEGREE RECIPIENTS
STUDENT DEMOGRAPHICS
5,611
1,428
1,776
873
1,147
182
Economic impact in Washington state
$14B
3,252
$594M
#1
$172.5M
44
$32M
STRATEGIC RESEARCH AREAS
Environment
Freshwater@UW. A collaboration between CoE, UW Tacoma and the College of the Environment to coordinate research and funding on high-profile water-related problems at the local to international scales.
Mountains to Sea. An initiative of Freshwater@UW to facilitate water sustainability research at UW that addresses work relevant to the PNW.
Energy
Clean Energy Institute (CEI). Accelerating the creation of a clean-energy economy and growing Washington's capacity for a sustainable environment.
Pacific Marine Energy Center. A consortium of universities focused on the responsible advancement of marine energy.
Manufacturing
Advanced Composites Center (ACC). Anticipated to launch in 2021, the ACC will be a robust innovation ecosystem for industry and academia to advance the field of data-driven methods for composites manufacturing.
Boeing Advanced Research Center (BARC). Boeing- employed affiliate instructors work with faculty and students on joint research projects in the manufacturing and assembly of aircraft and spacecraft structures.
Center for Digital Fabrication (CFab). A network of researchers, educators, industry partners, and community members advancing the field of digital fabrication at UW and in the greater Seattle region.
Nanotechnology Engineering & Science (NanoES). Providing education and research infrastructure, this program develops technologies to measure and manipulate at the nanoscale.
Washington Nanofabrication Facility (WNF). A full service micro and nanotechnology user facility and the largest public access fabrication center in the Pacific Northwest, with 15K square feet of laboratories, clean rooms and user spaces.
Health
Engineering Innovation in Health (EIH). A strategic research initiative to train the next generation of engineers and clinical fellows to develop technologies that improve care and reduce costs.
Center for Neurotechnology (CNT). An NSF-funded Engineering Research Center advancing the integration of technologies with the human neural system by bringing together leaders in robotics, neuroscience, computer science and other disciplines.
Infrastructure and Smart Cities
Supply Chain and Transportation Logistics Center (SCTL). The first of its kind in the Pacific Northwest, the center unites industry, transportation infrastructure agencies and policy-makers for supply chain, transportation and logistics research and education.
RAPID Natural Hazards Reconnaissance Facility. Funded by an NSF grant, the facility houses state-of-the-art equipment to support the collection of perishable data in the aftermath of earthquakes and wind hazards with the goal of developing more resilient communities.
The Pacific Northwest Transportation Consortium (PacTrans). Serves as an engine of transportation research, education and workforce development in the PNW.
FACULTY
289
26%
FACULTY ACHIEVEMENTS
3
43
135


Trailblazers
Graduates of the College of Engineering have pioneered efforts in technology, aerospace and government. Here are some outstanding examples of how our alumni are changing the world.
Yaw Anokwa (Ph.D. CS '12) is the creator of Open Data Kit, open-source software developed for resource-constrained environments and one of the most widely used tools for data collection in the world.
Jeet Bindra (M.S. Chem. '79) is the former president of global manufacturing for Chevron Corp.; he led the development of a pipeline from the Tengiz Field in Kazakhstan to the Black Sea.
Suzanna Darcy-Hennemann (B.S. AA '81) is a record-breaking chief pilot, director of flight training and designated captain of multiple jets at The Boeing Company and the first woman to serve as a Boeing test pilot.
Jeff Dean (Ph.D. CS '96) is the current head of Google's AI (formerly Venti joining Google in 1999); he has contributed to significant developments in Google's systems and underlying infrastructure.
Jane Grande-Allen (Ph.D. Bioll '98) pioneered heart valve tissue engineering and paved the way for alternatives to conventional open-heart surgery and advances in regenerative medicine for countless patients.
Jeremy Jaech (M.S. CSE '80) is an accomplished entrepreneur who cofounded software companies Altika (acquired by Adobe), Vivio (acquired by Microsoft) and Truedux he serves as UW regent.
Peter Jankiki (M.S. ME '89) founded Jankiki Industries, pioneering composite manufacturing with applications in aerospace, wind energy and transportation industries.
Sally Jewell (B.S. ME '79) served as the 51st U.S. Secretary of the Interior under President Barack Obama. Previously, she was the president and CEO of REI, the nation's largest consumer cooperative.
LEADERSHIP
Nancy Allbritton
Frank & Julie Jungers Dean of Engineering
Pedro Arduino
Special Assistant to the Dean
David Kyd
Associate Dean for Advancement
Kipny Pon
Associate Dean of Finance and Operations
Daniel Ratner
Associate Dean of Academic Affairs
Tseng Shen
Associate Dean of Medical Technology Innovation
Karen Thomas-Brown
Associate Dean for Diversity, Equity and Inclusion
Zhu Yang
Vice Dean
FINANCING ENGINEERING
Sources of Funds
36% Grants & Contracts
16% Gifts and Discretionary
13% Tuition
8% State Appropriations
6% Auxiliary
6% Research Cost Recovery
2% Investment Income
ABOUT THE UW
State Impact: The UW is the 5th largest employer in Washington state, supporting over 140,000 direct and indirect jobs.
Research Funding: The UW receives more federal research dollars than any other public university in the nation. In FY20, the UW received $1.63 billion in total research awards from federal and nonfederal sources.
Access: Nearly 10,000 UW undergraduates from Washington state have tuition and fees fully covered by the Husky Promise scholarship program. This makes our university one of the most economically diverse in the nation.

Collateral

UNIVERSITY of WASHINGTON

W | BIOENGINEERING

Bioengineers address unmet challenges in biology, health and medicine to improve lives around the world.

Bioengineering is a uniquely interdisciplinary field bridging engineering, biology, physical science and medicine. Students gain the tools, opportunities and experiences needed to work in multidisciplinary teams, and can engage in research with renowned UW faculty in the College of Engineering and the School of Medicine.

What makes bioengineering special?

As a small department, students are placed in a cohort and progress sequentially through a core curriculum, with opportunities for hands-on research. UW BioE faculty and graduate students mentor our students in core and elective classes, and during their senior capstone project. Seniors engage in an independent or team-based research and design capstone.

The UW student chapter of BMES, the professional bioengineering society, builds an inclusive community through social, service and academic events. Students can also make an impact through numerous clubs and through service on department committees. Bioengineers Without Borders, HuskyADAPT, BioExplore, and iGEM offer students a chance to incorporate classroom learning to solve real-life community challenges.

What Problems Are Bioengineers Trying to Solve?

Bioengineers make a difference in healthcare. They integrate creative ideas to solve open-ended problems in biology, health and medicine. Bioengineers work in diverse areas, including:

Neurorehabilitation.

To improve the limited and minimally effective treatment options for neurological disorders like stroke and epilepsy, bioengineers:

- Work to better understand the neural mechanisms that cause these disorders.
- Invent technologies to rehabilitate and ultimately cure these conditions.

Diagnosing and treating disease.

In search of ways to reduce the global burden of diseases like HIV, tuberculosis, flu and cancer, bioengineers:

- Develop ways to detect disease earlier, faster and inexpensively.
- Work to create and deliver more effective drugs right where needed.

Heart and organ failure.

Heart attacks cause irreversible damage. As they seek to repair damaged organs, bioengineers:

- Drive advances to regenerate tissue and grow human organs from scratch.
- Engineer artificial tissues and design medical devices that the body does not reject.

WHERE DO BIOENGINEERING ALUMNI WORK?

Industry and consulting

Around one-third of graduates work as engineers (application, biomedical, project, system, software, test), scientists (research, process development) and analysts (business, MRI, systems, analysts for innovations).

Accenture
Allen Institute for Brain Science
Anteris Technologies
Deloitte
EKOS
GE Healthcare
Johnson & Johnson
Just Biotherapeutics
Pacific NW National Laboratory
Philips
Sage Bionetworks
Seattle Children's
St. Jude Medical
Seattle Genetics
SonoSite
Stryker
U.S. Food and Drug Administration

Medical school and health-related degrees

Many become successful medical, dental, pharmacy and osteopathic students and well-rounded healthcare professionals.

Columbia Medical School
Duke University
Harvard
Johns Hopkins
Northwestern
Stanford
Uniformed Services University
UCLA
University of Illinois
University of Pennsylvania
UW Medicine and Dentistry
Yale School of Medicine

Graduate education

Graduates are accepted to a broad range of top-rated national and international programs, such as law, business, public health, thesis and applied master's, and Ph.D. programs.

Carnegie Mellon
Georgia Tech
Harvard
MIT
Northwestern Kellogg School of Management
Stanford
University of Michigan
University of Pennsylvania
Wharton School
UW Foster School of Business and School of Law

STUDENT DESIGN PROJECTS

Recent projects include:

- Developing New Point-of-Care Detection for COVID-19
- Heart Disease in a Dish: Improving Resistance of Engineered Heart Tissues
- Improved Devices to Collect DNA Samples
- MyHeart Mobile Application to Monitor Heart Health
- HIV Drug Resistance Testing Device
- 3D Printed Rods with Electrical Stimulation for Promoting Spinal Fusion

QUICK FACTS

More than 90% of our students participate in undergraduate research.

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BioE students join a cohort at the end of sophomore year, and progress together to graduation.

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Past students are Goldwater, Luce, Rhodes & Gates Cambridge scholars; Fulbright fellows; Bonderman fellows; Engineering Dean's Medalists and more.

How can you learn more?

If you think UW BioEngineering might be a good fit for you, there are many opportunities to explore. Consider taking one of these non-major classes:

BIOEN 215: Introduction to Bioengineering Problem Solving

ENGR 115: Engineering Transformation of Health

BIOEN 299: Introduction to Bioengineering.

BIOEN 509: Bioengineering Departmental Seminar.

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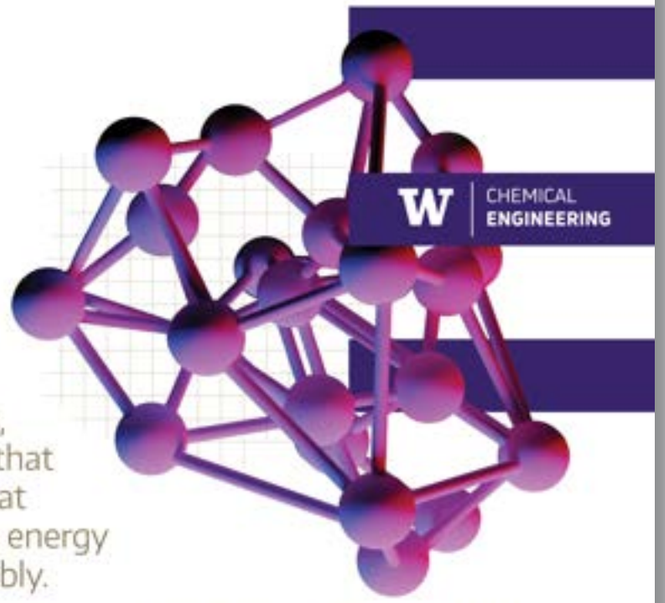
Collateral

UNIVERSITY of WASHINGTON



Chemical engineers develop the molecules, materials and devices that enable us to better treat disease, produce clean energy and live more sustainably.

Chemical engineers use their knowledge of physics, math, chemistry, materials and energy balances, and transport phenomena to transform raw materials into useful products. Innovations made by chemical engineers are reflected in medical advances, electronic devices, and high-performance materials. From targeted drug delivery systems to more efficient photovoltaics to protein-guided assembly of electronics, chemical engineering produces cutting-edge solutions to today's most pressing societal problems.

What makes Chemical Engineering special?

UW ChemE is a small, close-knit department with a cohort model. Students know their classmates' names and form study groups, and our advisers are available at a drop-in basis. Our small class sizes enable community building and innovative problem solving. Project-based teams through design coursework and student organizations such as like ChemE Car and the ChemE Brewing & Distilling Club give students a chance to solve problems outside the classroom.

Students have the ability to communicate with department leadership and advise on decision making throughout the department. We have UW chapters of AIChE— the Global Home for Chemical Engineers, and WChE — Women in Chemical Engineering, with opportunities to participate in social events, professional development opportunities, and work to improve representation of women and underrepresented minorities in chemical engineering.

What problems are Chemical Engineers trying to solve?

Chemical engineering is broad in application and scale, and chemical engineers contribute to innovation in every industry, designing, building and analyzing processes that range from the nano-scale to refineries larger than city blocks. Chemical engineers address issues such as:

- How do we transform low value materials into high value products?
- How do we make this product in a scalable manner without a negative impact on the environment?
- How can we scale up a process developed in a lab to reach as many people as possible?
- How can we deliver drugs right to the site they're needed and produce them in a way that people can afford to take them?
- Can we optimize manufacturing processes to be more economical, environmental friendly, and safe?

WHERE DO BIOENGINEERING ALUMNI WORK?

Air and space

Propulsion and fluid systems
Advanced space technologies
Power and energy systems
Advanced materials
Testing
Manufacturing
Processes
Boeing
Honeywell Aerospace
The Jet Propulsion Lab
NASA

Computing, data and digital technologies

Data science
Structures and scalability
Micro-processors and memory
AWS
Zillow
Google
Cascade Data Labs
Intel
Micron
IM Flash

Health and medicine

Drug delivery
Imaging
Synthetic biology
Biotech and pharmaceuticals
Just Therapeutics
Bristol Myers Squibb
Philips Healthcare
W.L. Gore

Infrastructure, transportation and society

Electrified transportation
Materials
Concrete
Auto parts
Engines
Air pollution and emission reduction
Biofuels
Supply chain
CalPortland
Ernst & Young
Government agencies

Robotics and manufacturing

Process optimization
Prototyping
Scaling and manufacturing
Cosmetics
Brewing
Paper and pulp
PepsiCo
W.L. Gore

RECENT CAPSTONE PROJECTS

- **Membrion, Inc.**
  Extracting heavy metals from mining wastewater.
- **Sironix Renewables**
  Efficient purification of green surfactants.
- **AvtechTyee**
  Co-cure multi-material rod for aerospace applications.
- **Boeing**
  Part smoothing models for additive manufactured titanium

QUICK FACTS

More than 60% of our students participate in undergraduate research.

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85% of our B.S. students go directly into industry.

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More than 20% of students study abroad, including a quarter-long program in Scotland and labs in Denmark.

—

More than 60% of our students participate in an entrepreneurial or industry-linked special design project.

—

Our cohorts are about 75 people and recent cohorts have been 50% women.

How can you learn more?

You can start doing research in a lab even before placing into a major.

Take a class that's open to non-majors, such as:

CHEM E 201: Chemical Engineering Today and Tomorrow

CHEM E 498: Diversity & Ethics in Chemical engineering

CHEM E 341: Energy & Environment

CHEM E 355: Biological Frameworks for Engineers.

For more information, visit our undergraduate page: bit.ly/chooseChemE.

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