

END OF YEAR REPORT 2022-23



A LETTER FROM THE WOMEN IN ENGINEERING COORDINATOR



I'd like to take this opportunity to reflect on the 2022-23 academic year.

I officially joined the University of New Haven at the beginning of 2023. Coming from industry, there was much I needed to learn. But my foundation in STEM outreach is a good starting place. I joined Sikorsky as an intern in June 2014 as a software engineer. As I learned how to be an engineer, I also became active in Sikorsky's volunteer opportunities. For the next six years, I would fill my free time as STEM volunteer, giving presentations to high schools, planning Q&A panels, teaching the scouts about robotics, and doing anything else that came my way.

My main goal has always been to learn as much as possible. Since becoming a Charger, I have learned about our Tagliatela College of Engineering and the admissions process for incoming students, and I visited Purdue University for a Women in Engineering conference. Every venture was meant to educate me.

Most of what I focused on was existing events and connections. This often meant inserting WIE into admissions events and partnering with the Engineering and Science University Magnet School (ESUMS), which is adjacent to our campus. After gaining these valuable experiences, it's time to look forward and apply what I've learned to new ideas and ventures.

Starting in Fall 2023, WIE will begin implementing new programs and events designed to educate pre-college students about engineering careers, defeat stigmas that limit young women interest in engineering, and overcome roadblocks that prevent students from pursuing engineering degrees.

These new programs will be educational for me as well. As I learn and grow as the WIE Coordinator, I will monitor our success and find insight and opportunity from our shortcomings.

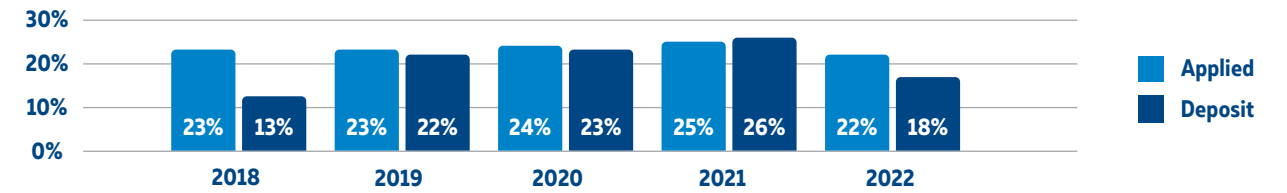
I look forward to what we can achieve for next year.
Thank you for your time,

Leah Austin
Women in Engineering Coordinator

FACTS AND FIGURES

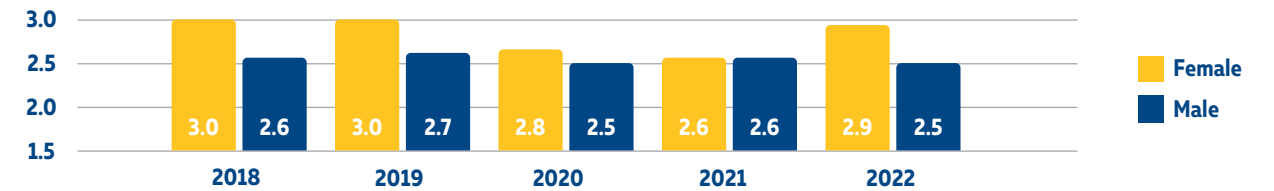
Female Students Applications

First year students, Engineering degrees only (Chemical, Mechanical, Civil, General, Electrical & Computer Engineering).



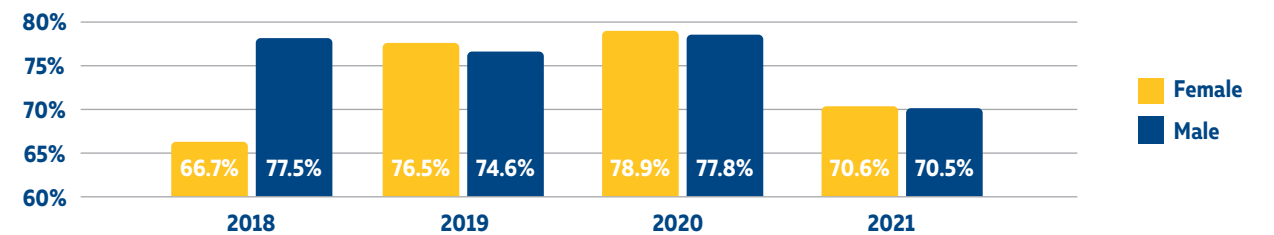
Average GPA

Students that remain in their degree. Average based on 4.0 GPA. Each year represents class cohort.



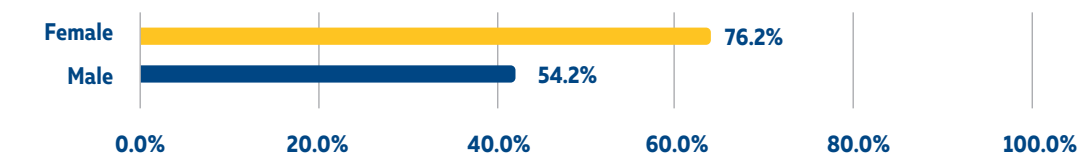
First-Year Engineering Student Retention

Engineering degrees only (Chemical, Mechanical, Civil, General, Electrical & Computer Engineering).



Graduation in 6 Year (From 2016-2022)

Engineering degrees only (Chemical, Mechanical, Civil, General, Electrical & Computer Engineering).





Building our impact.

Interacted with **150 Female Students.**

Hosted **6 events.**

Presented **3 high school presentations.**

Goals for the future.

- Sponsor 5 high school students to participate in the Engineering Internship Program.
- Provide 30 schools in-class Engineering Experience sessions to pre-college students.
- Host the first Celebrating Women Engineers Conference at the University of New Haven.

RESEARCH ON ESTABLISHED WIE PROGRAMS

Part of developing this program included learning from well established Women in Engineering programs from other universities. This research gives insight into the direction our program should take and what resources we'll need.

In May 2023, Purdue University hosted the first Women in Engineering Practitioners Convening. UNewHaven and several other WIE programs met to learn from each other and discuss ways to improve our impact.

Moving forward, the programs that attended will be forming a cohort for ongoing support. This partnership will allow University of New Haven to learn best practices from established programs and avoid the pitfalls other programs have experienced.

University	Student Size Spring 2023, Undergrad	Staff Number (Full + Part Time)	SWE Section	K - 12 Outreach	Summer Camps	Conferences
University of New Haven	Total: 5,023 Eng: 501 Female Eng: 99	1 Coordinator, Women in Engineering	Yes	Enrolling Now	No	In Development
University of Connecticut	Total: 24,371 Eng: 3,305 Female Eng: 893	5 members of Vergnano Institute for Inclusion	Yes	Yes	Yes	Yes
Purdue	Total: 10,191 Eng: 2,484 Female Eng: 795	7 Members of WIE Administration	Yes	Yes	Yes	Yes
University of Michigan	Total: 5,880 Eng: 1,010 Female Eng: 401	6 members of the WISE team plus student board	Yes	No	Yes	No
Georgia Institute of Technology	Total: 18,415 Eng: 7,913 Female Eng: 2,799	1 Associate Director, Women in Engineering + Faculty support	Yes	Yes	Yes	Yes

SPRING 2023 EVENTS



Admitted Students Day

WIE hosted lunch receptions where prospective students could meet with current students in a private and casual setting.

3 Events Hosted.



Faculty visits to ESUMS

WIE attended faculty visits to neighboring high school, ESUMS. Students were given the opportunity to learn about civil engineering, mechanical engineering, and robotics.

3 Events and 100 Students Participated.



Open House

WIE hosted a hands-on activity where prospective students could learn from current students and build something to bring home.

1 Event Hosted.

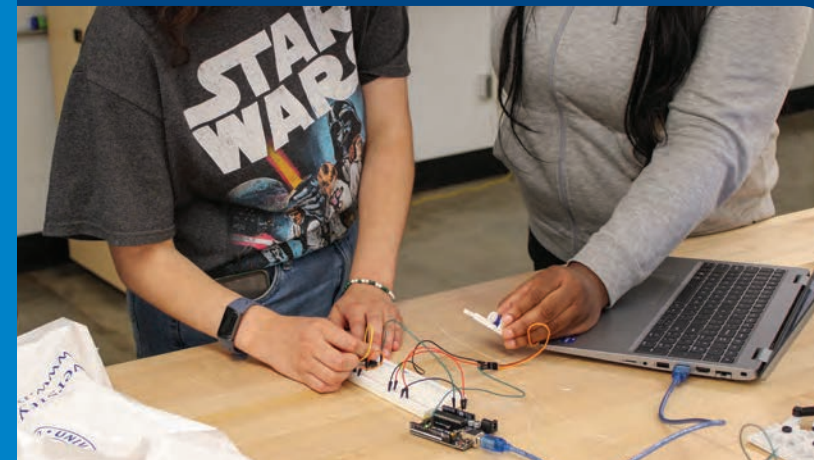
SPRING 2023 EVENTS



Outreach

WIE was invited to participate in a handful of one-time outreach events throughout the region. These events include the CT Science Center with SWE, NY College Expo, and the Enfield High School Engineering Panel.

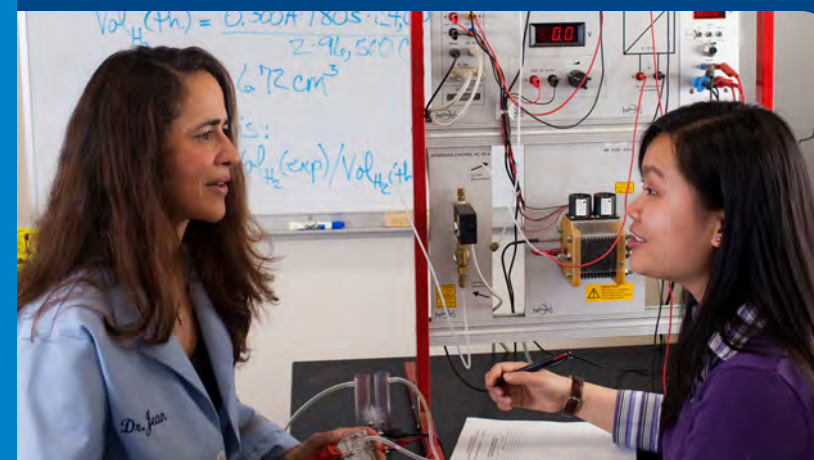
3 Events Hosted.



Internship

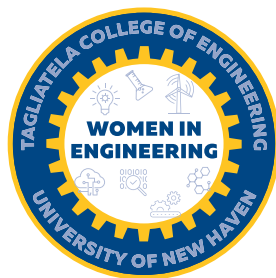
WIE invited 3 female students from the Hamden Engineering Careers Academy to work with our mechanical engineering faculty for an engineering experience. They built a robotic claw as a part of the experience.

3 Interns and 100-Hours Completed.



Other Events

Other events were developed and planned for throughout the semester including the Changer Shadow Days and Science Night.



University of New Haven

TAGLIATELA COLLEGE OF ENGINEERING