**OUR MISSION**

The Center serves to educate, engage and connect engineering students with the tools and information they need to begin their career exploration and beyond. From cover letters and resumes to internships/co-ops and full-time opportunities, The Center covers the complete spectrum of career engagement.

**HIGHLIGHTS**

In alignment with the entire university, we transitioned all of our services for students and employers online for the 2020-2021 academic year.

- Converted 4 in-person career fairs to 20 virtual career fairs using new Handshake functionality.
- Created Virtual Internship course that offered 200+ professional development and networking virtual events to students unable to secure an internship.
- Launched 2 new websites and a YouTube channel to expand students digital resources.
- Over $165K in corporate revenues were brought in to assist with the Career Programs, Student Organization Support (35K) and Student Emergency Fund (50K).

**Fall 2020 Undergraduate Enrollment Composition**

<table>
<thead>
<tr>
<th>Gender</th>
<th>Computer Science</th>
<th>Chemical Engineering</th>
<th>Computer Engineering</th>
<th>Biosystems Engineering</th>
<th>Environ Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>77.0% (4,322)</td>
<td>8.7% (489)</td>
<td>6.0% (338)</td>
<td>4.0% (223)</td>
<td>3.6% (201)</td>
</tr>
<tr>
<td>F</td>
<td>23.0% (1,291)</td>
<td>9.1% (509)</td>
<td>26.3% (1,477)</td>
<td>6.6% (368)</td>
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<table>
<thead>
<tr>
<th>Major</th>
<th>M</th>
<th>F</th>
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<tbody>
<tr>
<td>Computer Engineering</td>
<td>29.8%</td>
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</tr>
<tr>
<td>Chemical Engineering</td>
<td>8.7%</td>
<td>2.2%</td>
</tr>
<tr>
<td>Materials Science and Engineering</td>
<td>2.2%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Applied Engineering Sciences</td>
<td>6.2%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>9.1%</td>
<td>6.6%</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>6.6%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>26.3%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>26.3%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>6.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>6.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Biosystems Engineering</td>
<td>4.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Biosystems Engineering</td>
<td>4.0%</td>
<td>0.6%</td>
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<tr>
<td>Environ Engineering</td>
<td>3.6%</td>
<td>0.6%</td>
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<tr>
<td>Environ Engineering</td>
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<table>
<thead>
<tr>
<th>Gender</th>
<th>Senior</th>
<th>Junior</th>
<th>Sophomore</th>
<th>First-Year</th>
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<tbody>
<tr>
<td>M</td>
<td>29.0%</td>
<td>22.9%</td>
<td>23.5%</td>
<td>24.6%</td>
</tr>
<tr>
<td>F</td>
<td>23.0%</td>
<td>22.9%</td>
<td>23.5%</td>
<td>24.6%</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>White</th>
<th>Asian/Pacific Islander</th>
<th>International</th>
<th>Black</th>
<th>Hispanic</th>
<th>Multiracial</th>
<th>Not Reported</th>
<th>Native American</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>64.1%</td>
<td>11.8%</td>
<td>9.4%</td>
<td>5.1%</td>
<td>4.6%</td>
<td>3.2%</td>
<td>1.6%</td>
<td>0.2%</td>
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<thead>
<tr>
<th></th>
<th>(3,599)</th>
<th>(622)</th>
<th>(525)</th>
<th>(289)</th>
<th>(257)</th>
<th>(182)</th>
<th>(89)</th>
<th>(10)</th>
</tr>
</thead>
</table>
**Student Outreach & Engagement**

In the 2020-2021 academic year there were 5867 undergraduate engineering students.

**CAREER ADVISING**

Our full-time staff and student workers conducted +2,000 virtual advising appointments.

**WORKSHOPS**

Conducted 48 virtual workshops engaging with +1,700 students

**HANDSHAKE**

*MSU’s online recruiting system*

- 5,735 total unique student log-ins
- 5,405 students have resumes in the system
- 2,788 students have a completed profile
- 1,099 students applied to a job resulting in 15,587 applications submitted

**DIGITAL ENGAGEMENT**

Utilized website, social media and a weekly newsletter to share event information, development opportunities & job postings.

- 430,000 impressions
- 1,319 views and 7,100 impressions
- Weekly Newsletter
  - 18% average open rate

**EXPLORATORY PROGRAMS**

Created 3 new virtual programs for career exploration.

- Through the **Regional Corporate Tours** students were able to virtually explore Seattle, Minneapolis, Chicago, Texas and California.
- **Explore Engineering** allowed students to virtually learn about the following industries; automotive, biomedical, energy & sustainability, entertainment, food & beverage, consumer packaged goods, and aerospace, aviation, & defense.
- The **College to CEO** speaker series brought in 6 C-Suite Executives to offer advice and answer questions virtually.

**FRESHMEN ENGAGEMENT HIGHLIGHTS**

At the start of the 2020-2021 academic year, there were 1,478 freshmen engineering students

- 14% had a career advising appointment
- 82% have logged in to Handshake
- 17% participated in a virtual career fair
- 73% have a resume in Handshake
**Building & Maintaining Employer Relationships**

In the 2020-2021 academic year there were 5,600+ employers that recruited Spartan Engineers virtually.

The Center staff ramped up their employer outreach hosting 200+ virtual employer meetings and 12 employer focused webinars.

**VIRTUAL EVENTS**

138 employers hosted 311 virtual events targeting engineers.

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**JOB POSTINGS**

+22,000 job postings targeting engineers via Handshake

19% of all postings identified as remote

**Full-Time vs Intern/Co-op Job Postings**

- **Full-Time**: 61%
- **Intern/Co-op**: 34%
- **Other**: 5%

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**TOP 5 STATES FOR APPLICANTS**

- Michigan
- California
- Illinois
- Texas
- Ohio

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**VIRTUAL CAREER FAIRS**

Coordinated 20 virtual engineering career fairs with 2,224 unique student check-ins. On average students participated in 3 career fairs. Handshake’s virtual career fair tool allowed employers to coordinate groups sessions and 1:1 meetings with students.

- **2,870 check-ins for group sessions**
- **11,590 1:1 meetings took place (10min/each)**

**TOP 10 EMPLOYERS BASED ON UNIQUE STUDENT ENGAGEMENT AT FAIRS**

- DTE Energy (415) *
- General Motors (407) *
- Stryker (369) *
- GE (321) *
- Trane Technologies (244) *
- Eaton (238) *
- TechSmith Corporation (237) *
- Stellantis - FCA Fiat Chrysler Automobiles (234) *
- General Mills (229)
- Amcor (215) *

* Denotes partners with The Center

To see a complete list of our employer partners head over to [www.careers.egr.msu.edu](http://www.careers.egr.msu.edu)
EGR X
Experiential Education

EGR X (formerly EGR 393) is a series of one credit courses designed to enhance a student’s experiential education work term by simulating opportunities for non-technical aspects of professional development and assessment of expectations. In addition, the student will be guided through an in depth appraisal of their post-graduation professional options.

MEDIAN HOURLY WAGE
(SUMMER 2020)

$21.00

In response to the transition to remote work and reduction of intern/co-op opportunities, The Center created "The Virtual Experience." EGR 193 was designed to offer students virtual professional development opportunities through assignments, workshops and networking events.

COMMUNITY PARTNERS
We partnered with WayUp, TechFest, After 5 Detroit and The Engineering Society of Detroit to offer +200 unique virtual events.

COURSE ENROLLMENT (SUMMER 2020 - SPRING 2021)
Throughout the 2020-2021 academic year, we recorded 507 enrollments in EGRX by 427 unique students. This represents only those students who chose to register their experience for credit (approx. 30% of interns / co-ops).

<table>
<thead>
<tr>
<th>EGR 193 (Selected Topics) 105</th>
<th>EGR 391 (1st) 158</th>
<th>EGR 392 (2nd) 108</th>
<th>EGR 493 (3rd) 95</th>
<th>EGR 494 (4th) 41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unique Students 427</td>
<td>Total Enrollments 507</td>
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</table>

Clearly, students see the value of experiential education. Strong enrollments in 392-494 indicate a high rate of return for second, third and fourth internships / co-ops.

TOP EMPLOYERS FOR EGR X

DTE (15)
AMCOR (11)
MARATHON / MARKWEST ENERGY PARTNERS (10)
DEPUY SYNTHES / JOHNSON & JOHNSON (8)
GENERAL MOTORS (6)
CONSUMERS ENERGY (6)

NATIONAL INTERN DAY
For National Intern day we coordinated a full day of workshops, 8 in total, that offered training in Tableau, Six Sigma, Resumes, Case Studies, LinkedIn and an employer panel. Attendance for the days event was +500.
2020 Graduate Career Outcomes

Class Composition

| Male | 75.1% (668) |
| Female | 24.9% (221) |

<table>
<thead>
<tr>
<th>Mechanical Engineering</th>
<th>Chemical Engineering</th>
<th>Electrical Engineering</th>
<th>Computer Engineering</th>
<th>Biosystems Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.0% (222)</td>
<td>12.1% (108)</td>
<td>8.0% (71)</td>
<td>5.7% (51)</td>
<td>4.7% (42)</td>
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</thead>
<tbody>
<tr>
<td>22.8% (203)</td>
<td>10.9% (97)</td>
<td>6.6% (59)</td>
<td>2.8% (25)</td>
<td>2.4% (21)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>White (non-Hispanic)</th>
<th>International</th>
<th>Asian</th>
<th>Hispanic</th>
<th>Black</th>
<th>Multiracial</th>
</tr>
</thead>
<tbody>
<tr>
<td>69.5% (614)</td>
<td>13.7% (121)</td>
<td>7.6%</td>
<td>3.8%</td>
<td>3.5%</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

Co-Curricular Experiences

- 86.0% Participated in ≥ 1 internship/co-op
- 38.9% Participated in undergrad research
- 28.0% Participated in a volunteer activity
- 14.5% Participated in education abroad

Top Destinations

Of the 498 graduates reporting destinations, 60.6% (302) were employed in Michigan, and 76.3% (380) reported employment in the Midwest.

by Employer
1. General Motors (48)
2. Ford Motors (22)
3. Pfizer (12)
4. General Electric (11)
5. Microsoft (9)
6. Consumers Energy (5)
7. Epic Software (5)
8. Stellantis (FCA) (5)
9. Lockheed Martin (5)
10. Williams Int’l (5)

by State
1. Michigan (302)
2. Illinois (24)
3. Ohio (20)
4. California (19)
5. Washington (16)
6. Virginia (11)
7. Indiana (10)
8. Wisconsin (10)
9. Minnesota (9)
10. Georgia (7)

by City (MI)
1. Detroit* (145)
2. Lansing* (37)
3. Grand Rapids* (18)
4. Kalamazoo* (14)
5. Jackson (14)
6. Ann Arbor (11)
7. Flint* (3)
8. Traverse City (2)
9. Holland (2)
10. St. Joseph (2)

by City (non-MI)
1. Chicago* (21)
2. Seattle* (14)
3. Bay Area, CA* (9)
4. Minneapolis* (8)
5. Cincinnati* (7)
6. Boston* (6)
7. Madison, WI* (6)
8. Washington DC* (5)
9. Atlanta* (5)
10. Cleveland* (4)

(* denotes metropolitan area, including suburbs)

KEY STATS

Data Represents Spring/Summer 2020 Graduating Undergraduates

- 80.1% Knowledge Rate (712/889 responses)
- 93.8% Placement Rate (Employment/Education)
- $67,856 Average Starting Salary
- $70,000 Median Starting Salary
- 78.2% Engaged in full- or part-time employment
- 15.6% Enrolled in graduate school or other continuing education

To see graduate outcomes by department, head to www.careers.egr.msu.edu/reports