Choose Ohio First
Networking Meeting
Friday, October 18, 2019
Program Overview

• The Choose Ohio First Scholarship Program is a state-funded program intended to increase numbers of students graduating in Science, Technology, Engineering, Mathematics and Medicine (STEMM).

• Annual scholarship awards range from $1,500 to $7,955 per year
  • Renewable up to 8 semesters based on continued eligibility and state funding
  • Students DO NOT need to re-apply
  • The actual amount is based on a student’s financial need (not merit or any other criteria)

• Support and enrichment opportunities are provided
  • Cohort advisors
  • Engagement offerings may include advising, tutoring, peer mentoring, support for undergraduate research, and exposure to community service opportunities
  • Social activities
Eligible Majors at CSU

<table>
<thead>
<tr>
<th>College of Sciences and Health Professions</th>
<th>Washkewicz College of Engineering</th>
<th>School of Nursing</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Biology</td>
<td>• Chemical Engineering</td>
<td>• Nursing</td>
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<tr>
<td>• Chemistry</td>
<td>• Civil Engineering</td>
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<td>• Environmental Science</td>
<td>• Computer Engineering</td>
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<tr>
<td>• Health Sciences</td>
<td>• Computer Science</td>
<td></td>
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<tr>
<td>• Mathematics</td>
<td>• Electrical Engineering</td>
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<td>• Pharmaceutical Sciences</td>
<td>• Mechanical Engineering</td>
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<td>• Physics</td>
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<tr>
<td>• Speech and Hearing</td>
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</table>

**Students planning to pursue a pre-professional track must select and remain enrolled in an above indicated major**
Applying for the Scholarship

• Students apply online via our website
  • Freshman application
  • Transfer application

• The application typically opens early November

• The committee reviews applications on a rolling basis

• Accepted students need to send back a signed/dated commitment form to secure their spot

https://www.csuohio.edu/choose-ohio/choose-ohio
Criteria to be Considered

- Be an entering freshman or transfer student. *(Current students and post-bacs are INELIGIBLE)*
- Be an Ohio resident
- Have an undergraduate degree plan for an approved STEMM major
- Have a high school grade point average of 3.25 or higher, or ACT score of 27 or higher, or SAT score of 1300 or higher
- Agree to adhere to COF program requirements
- Not already be receiving a full scholarship
- Have a current FAFSA on file
COF Program Expectations

- Complete 15 credit hours per semester
- Attend at least 5 cohort meetings per semester
- Complete a Research Poster annually
- Maintain a 3.25 or better Cumulative GPA
- Have a graduation plan approved by advisor
- Meet with advisor at least once a semester
- Complete Upper Division Program requirements
## Starfish Indicator

### Admissions

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<td>ACT Math:</td>
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<td>ACT English:</td>
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<td>ACT Writing:</td>
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### Cohorts

Choose Ohio First/STEM Fellows, Scholars
6 Different Divisions

- **Life Sciences** (Underclassmen)
- **Math** (Underclassmen)
- **Nursing** (Under and Upperclassmen)
- **Grand Challenges** (Upperclassmen)
- **Internship/Service** (Upperclassmen)
- **Research/Science Outreach** (Upperclassmen)

***Weekly meetings held during common hour***
Blackboard Shells
STEM Fellows – Living Learning Community

• Choose Ohio First scholars who live on our specifically designated floor in Fenn Tower are referred to as “STEM Fellows”

• We provide additional programming and activities (i.e.- game nights, welcome party)

• They take a special section of ASC101 co-taught by Dr. Margolius & Dr. Holland (Tuesday’s 5:00-5:50pm)

• A limited number of need based scholarships are available to help with the additional associated costs of living on campus

• Students indicate their interest on the COF application as well as their housing application
### Enrolled Scholars by College as of Fall 2019

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<td>Washkewicz College of Engineering</td>
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<td>5</td>
<td>37</td>
<td>39</td>
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<td>Total</td>
<td>2</td>
<td>12</td>
<td>85</td>
<td>86</td>
<td>91</td>
<td>276</td>
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</table>
Retention Comparisons for First Time Full Time Freshmen
Fall 2015, Fall 2016 and Fall 2017 Cohorts

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<tr>
<th></th>
<th>Still enrolled or graduated by 3\textsuperscript{rd}, 5\textsuperscript{th} or 7\textsuperscript{th} semester</th>
<th>Number of Students in Cohort</th>
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<tr>
<td></td>
<td>S03</td>
<td>S05</td>
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<tr>
<td>All CSU First Time FT Frosh</td>
<td>71%</td>
<td>58%</td>
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<tr>
<td>Choose Ohio First</td>
<td>96%</td>
<td>93%</td>
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<tr>
<td>Honors</td>
<td>96%</td>
<td>95%</td>
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<tr>
<td>Presidential Scholars</td>
<td>91%</td>
<td>83%</td>
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<tr>
<td>Provost Scholars</td>
<td>85%</td>
<td>75%</td>
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</table>
Industry Partner Involvement

- Cleveland Clinic/ Lerner Research Institute
- National Risk Management Services
- Rockwell Automation
- National Interstate Insurance
- Deloitte Consulting LLP

- Swagelok
- Quanto Solutions
- The Austin Company
- Sherwin Williams

Spring 2019 Industry Advisory Council Meeting was held on Thursday, March 28th
Going Forward

• 91 new freshman and transfer students joined in Fall 2019

• 276 scholars as of Fall 2019

• Expansion of “upper division” cohorts
Student Comments

• This scholarship has made college MUCH more affordable. I am endlessly grateful for this scholarship as it has allowed me to work less hours to pay for school and be able to focus on my academics and be more active on campus!

• I really enjoyed the networking opportunities Choose Ohio First presented. Not only was I able to connect with my peers to start on a research project, but I was able to talk to some people in similar fields that I am interested in, as well as hearing about different companies that they worked for. [COF] really improved my sense of fellowship at CSU.

• I loved being in COF during my first semester! The meetings were always very informing, and something I looked forward too. It was helpful to attend them to find out how to improve myself as a student.
Beach Clean-up Day
Poster Sessions
Questions?

Thank You!
LORAIN / UTOLEDO COMPUTER SCIENCE PARTNERSHIP PROGRAM

Lauren Bieler, John Crooks & Scott Molitor

Choose Ohio First Networking Meeting Friday October 18, 2019
LORAIN / UTOLEDO CSE PROGRAM

• Joint program started in 1999-2000 as part of Lorain’s University Partnership Program

• Goal is to provide Lorain County residents access to 4 year CE & CS degree program
  ▪ Low cost and convenient location

• Combination of transfer, on-site and interactive video distance learning courses

• 164 CSE and 58 CSET degrees awarded
LORAIN CHOOSE OHIO FIRST PROGRAMS

• Four funded Choose Ohio First programs (8.13, 16.21, 16.32 and 16.68)

• Encourage Lorain students to complete four year University Partnership Program (UPP) degrees

• Fund students in 4-year UPP degrees offered with Akron, Hiram College, Kent State & UToldeo
  ▪ Includes UToldeo CSE and CSET programs

• Includes new four year Mechatronics / MEMs degree offered through Lorain
LORAIN CHOOSE OHIO FIRST PROGRAMS

• LCCC has distributed over $500k in COF funding
• COF scholarships augmented with funds from LCCC Foundation
• LCCC Foundation has provided scholarship funds for 20 years since inception of UPP
• Scholarships augmented with income earned by CSE students in mandatory co-op experiences
UTOLEDO CHOOSE OHIO FIRST PROGRAM

• Currently funded as Choose Ohio First for Engineering Entrepreneurship (16-68)
• Incentivize Engineering students to pursue training in Entrepreneurship
• Revised to include formal & extracurricular training in Professional Sales
• Partner with Lorain for Engineering programs outside of CSE and CSET
UTOLEDO CHOOSE OHIO FIRST PROGRAM

• 209 students funded since Fall 2009 (15 CSE, 6 CSET)
• 99 students have earned four-year degrees
  ▪ 93 Engineering, 4 CSE, 2 CSET
  ▪ 84 employed or pursuing adv. studies in STEMM
  ▪ 65 employed or pursuing adv. studies in Ohio
• 350 co-op semesters completed by COFFEE scholars
  ▪ Represents over $1.8M in economic activity
  ▪ Majority (~70%) co-ops completed in Ohio
• Have not funded non-CSE or CSET Lorain students
TRANSFER FROM 2-YR TO 4-YR PROGRAMS

All Associate Degrees
N: 14,861

Applied/Technical Degrees
N: 11,641 (77.8%)

Four-year enrollment:
2,575 (22.1%)

Graduation:
1,304 (50.8%)

Arts/Science Degrees:
N: 3,220 (22.2%)

Four-year enrollment:
1,569 (48.8%)

Graduation:
1,100 (70.1%)

Note: Four-year enrollment refers to attendance at Ohio public four-year main and regional campuses.

Data provided by Shoumi Mustafa ODHE
11/27/17
TRANSFER FROM 2-YR TO 4-YR PROGRAMS

Data provided by Shoumi Mustafa ODHE
11/27/17
TRANSFER FROM 2-YR TO 4-YR PROGRAMS

• Very few 2-year Engineering students go directly into 4-year Engineering programs
• Most graduates of 2-year Engineering programs are getting jobs
• Poses a challenge for 4-year Engineering programs recruiting 2-year students!
IMPROVING THE TRANSFER PIPELINE

• One potential audience is adult learners looking for career advancement

• Requires substantial changes to recruiting by 4-year Engineering schools
  ▪ Less emphasis on HS visits & ACT/SAT scores
  ▪ More emphasis on employers & CTE

• Requires substantial changes to 4-year Engineering degree programs
  ▪ More evening, on-line and part-time programs
HOW CAN ODHE HELP?

• Working with adult learners requires flexibility
  ▪ Pro-rated funding for part-time learners
  ▪ Overall funding should be limited by dollars not semesters

• Most adult learners will need remediation in math and/or science for Engineering studies
  ▪ Need more flexibility on qualifying majors
  ▪ Need more flexibility on funding students after they arrive
HOW CAN ODHE HELP?

• Awarding more STEMMM degrees to Ohio residents requires both recruiting & retention
• COF programs are focused on recruiting new students to STEMMM programs
• Could use COF funds to address financial issues that ordinarily result in attrition
  ▪ US DoEd/NCES – 2.5M students dropped out of public institutions with average of $7k debt
• Could use COF funds to recruit-back students that dropped out and have college credit
Lauren Bieler - lbieler@lorainccc.edu
John Crooks - jcrooks@lorainccc.edu
Scott Molitor – scott.molitor@utoledo.edu

Choose Ohio First Networking Meeting Friday October 18, 2019
Building an Innovation Pipeline:
The Choose Ohio First Scholarship Program at John Carroll

Dr. Rebecca Drenovsky
Program Director
Associate Dean for Graduate & Professional Programs
Professor of Biology
Overview

1. What is the mission of John Carroll?
2. What are our program goals?
3. Who is part of the team?
4. What are the program components?
5. What are our outcomes so far?
What is the mission of John Carroll?

As a Jesuit institution, JCU holds these values:

- Caring for the whole person
- Fostering a culture of reflection
- Striving for rigorous, academic inquiry
- Building a campus culture that promotes inclusion
- Working towards a more just world
What are our program goals?

1. Developing reflective, intentional decision-makers
2. Cultivating social justice-minded leaders
3. Preparing career-ready STEMM professionals
Importance of the support team: Multiple campus partners

Leadership Team
Rebecca Drenovsky  Mark Waner

Enrollment & Financial Aid
Steve Vitatoe  Stacey Love  Claudia Wenzel

Advisory Board
Mike Martin  Kathy Lee  James Watling

Registrar
Michelle Reynard

Residence Life
Toya Fulbright  Eddie Carreon
Importance of support team: STEMM faculty, staff, & peer mentors

Helping students...

...reflect and grow
What are the program components?

1. $3,640 scholarship
2. STEMM faculty advisor & peer mentors
3. STEMM-specific orientation and move-in week activities
4. Expanded cohort advising
5. One credit *Entering Research* course
6. Dedicated summer research fellowships for COF Scholars
Program components: Pre-matriculation

High touch with awardees

1. Welcome letter & mentor bios
2. Follow-up communications
3. Pre-enrollment in fall classes
Program components: STEMM-specific orientation & move-in week activities

- Meeting scientists at CMNH
- Sustainable CLE tour
- Biodiversity in CLE with Dr. Sheil
Program components: STEM Living Learning Community

**Dedicated floor** for first year STEM students

**Immersive experience**—where classmates are neighbors

“We’re one big group committed to helping each other succeed... help is just one knock away.” – Rome Ogeto
Program components: Expanded cohort advising

**First year:** Transition to college and opportunities at John Carroll

**Second year:** Sophomore slump

**Third year:** Taking stock & preparing to launch

**Fourth year:** Reflection & giving back
Program components: Expanded cohort advising

Example: Core values exercise

Seek wisdom.
Act with empathy.
Promote inclusiveness.
Share my enthusiasm.
Support personal development.

Adapted from Taproot (http://www.taproot.com/archives/37771)
Program components: Expanded cohort advising

Example: Planning & hosting alumni panel
Program components: Expanded cohort advising

Example: Building a JCU Bucket list

Based on Candy Chang’s Before I Die Project & TED Talk
Program components: Entering Research

Students want to do research—but need help understanding:

1. What it is
2. How it fits into their plan
3. That talking to faculty isn’t so scary
4. *That they are prepared to do it*
Program components: Summer research fellowships

Student-faculty research partnerships

Six of 22 students participated after their first year
Additional students in academic year, after sophomore year

Also, professional development series
Program components: Field trips & social events

Dr. Robert Sapolsky

TableTop, CLE

All STEM Scholar Social
Community & network building

Through this program, we want them to:

- **Learn** more about themselves
- **Understand** they have a team to support them—including their peers
- **Develop** their identities as STEMM professionals—whatever form that takes
Student outcomes

Starting our third year...

30 of 32 scholars retained; all maintain eligibility
Avg. cumulative overall, STEMM GPAs: 3.827, 3.755
22 lived in our STEM LLC
12 completed a paid or unpaid internship
7 completed a research project
Key success takeaways

1. **Early interventions** are important for developing cohort identity
2. **Regular meetings** focused on themes that resonate with scholars support their success
3. **Community-building** is a key program element
4. **Reflective activities** help students process their college experience
5. **Fun activities** are important for the students
6. **Peer mentors** also grow through program participation
Questions?
Student testimonials

From the very beginning, I knew there were people who shared similar values together, we’ve finished our first year of college successfully due to our reliance on each other for support, both, academically and personally. It’s almost like I gained another family.

Being a part of this program has opened up so many new doors to me in science. It has shown me all the opportunities out there and has given me the confidence to know that I can achieve anything that I get my mind and heart to.

From this experience, not only did I gain knowledge to help me reach my future goals, but I also gained a strong group of friends that are experiencing the same things as me, have very similar goals as me, and who always push me to do my best.
## Scholar success

<table>
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<tr>
<th>2017-2018 Cohort</th>
<th>Starting Cohorts</th>
<th>Fall 2017 EOT GPA</th>
<th>Spring 2018 EOT GPA</th>
<th>2017-18 Cumulative GPA</th>
<th>Fall 2018 EOT GPA</th>
<th>Spring 2019 EOT GPA</th>
<th>Cumulative GPA</th>
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<tbody>
<tr>
<td>STEMM</td>
<td>214</td>
<td>3.122</td>
<td>3.161</td>
<td>3.164</td>
<td>3.197</td>
<td>3.188</td>
<td>3.281</td>
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<tr>
<td>Non-STEMM/Non-COF</td>
<td>524</td>
<td>3.038</td>
<td>2.955</td>
<td>3.009</td>
<td>3.054</td>
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<td>3.114</td>
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<td>Overall</td>
<td>753</td>
<td>3.075</td>
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<th>2018-2019 Cohort</th>
<th>Starting Cohorts</th>
<th>Fall 2018 EOT GPA</th>
<th>Spring 2019 EOT GPA</th>
<th>2018-19 Cumulative GPA</th>
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<td>COF</td>
<td>8</td>
<td>3.761</td>
<td>3.861</td>
<td>3.816</td>
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<td>STEMM</td>
<td>229</td>
<td>3.180</td>
<td>3.189</td>
<td>3.178</td>
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<tr>
<td>Non-STEMM/Non-COF</td>
<td>607</td>
<td>3.022</td>
<td>2.943</td>
<td>2.995</td>
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<tr>
<td>Overall</td>
<td>844</td>
<td>3.072</td>
<td>3.020</td>
<td>3.053</td>
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NEOhio COF Student Research Conference

CCC, CSU, CWRU, KSU, YSU
NEOhio COF Consortium

• Led by CSU (Barb Margolius): 2007–08 proposal, 2008–12 grant implementation
• UA, CCC, CSU, CWRU, KSU, YSU
• “Success in Mathematics”—maths preparation for STEM
• Original student research projects linked undergraduate maths to students’ STEM major
• Role of student research projects to COF program at each partner campus
Conference History to Present

• Original purpose: network COF supported students across NE Ohio consortium

• Spring 2009 conference online; subsequent conferences face-to-face, juried in recent years

• Typically 300–400 students, 120 posters divided into several categories

• Judge pair and rubric/scorecard for each poster: originality, presentation, poster, teamwork

• Each judge pair names outstanding project; typically 17–20 recognized projects
Current Conference Practices: 1

- Held each April; host site currently rotates among CCC, CSU, CWRU, KSU, YSU
- Online registration of projects, students, judges at website set up by host
- Conference day, with travel, up to 8 hours
- Students arrive, sign-in, find location, put poster up
- Students, judges, staff eat lunch
Current Conference Practices: 2

- Students judged typically in two shifts: students of shift not being judged meet other students, see other projects
- Judging done on paper, turned in for processing; also, judges’ nominated outstanding projects
- During processing, students (judges & some staff) attend plenary presentation by academic/industrial/healthcare professional
- Awards ceremony: recognition of outstanding projects. Breaking down posters
Related Conference Matters

• Conference costs: CWRU, April 2019
• Photos of recent Conferences
• Poster preparation support at CSU
• Project/conference integration at YSU
Conference Costs: 1

- Conference costs to the host institution are divided among participating schools and billed after the conference is held.

- Additional costs might include poster printing and the rental of a bus or van for travel. These are paid directly by each school.
Conference Costs: 2

Host costs are divided among institutions based on

- the number of student participants …
  
  Student lunches
  Student parking
  Programs (printed by YSU)

- or the number of posters from each school.
  
  Poster stand rentals  Judge/Staff lunches
  Facility fees  Gifts/Prizes (sponsors solicited)
  Judge/Staff parking  Supplies (nametags, certificates, …)
<table>
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<tr>
<th>Category</th>
<th>By Student</th>
<th>By Poster</th>
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<td>310</td>
<td>125</td>
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<td>Programs - by YSU 273.52</td>
<td>Poster Stands 850.00</td>
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<td>Lunch-Students 2970.00</td>
<td>Facility Rental 1225.00</td>
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<td>Parking- Students 154.00</td>
<td>- TVUC 1225.00</td>
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<td>- Thwing Center 175.00</td>
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<td></td>
<td></td>
<td>- Catering fees 179.00</td>
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<td>Parking- Judges/Staff 55.00</td>
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<td></td>
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<td>Supplies 317.46</td>
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<td>Lunch-Judges/Staff 774.50</td>
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<td>Gifts (less $600 Lubrizol) 169.19</td>
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<td></td>
<td>147.54</td>
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Conference Snapshots

• CWRU welcome April 2019—note 7 institutions
• Group shot of participating students April 2019
• CWRU team awaiting judging
• YSU team being judged
• Plenary lecture/presentation
• CSU team recognition in April 2018
Poster Preparation Support at CSU

• Poster project overview presentation at the start of the academic year.
  • Differences between expository and original research discussed
• Topic brainstorming session
• Support in forming groups (2-4 students)
• CSU faculty members present on their current research
  • Various times throughout the year
  • Various disciplines
  • All are willing to serve as poster mentors
• How to craft a scientific abstract session
• Mandatory practice session 2 weeks before
  • Groups present to a CSU faculty member
  • Constructive criticism on layout and delivery provided
Project/Conference Integration at YSU

• COF scholarship student contract mandates research team projects, and their presentation at 3 venues, including the Conference
• Faculty + industrial/health-care professionals as team mentors; COF management team helps with logistics
• October cohort meeting sets up project teams; each Spring cohort meeting dedicated to projects, including full “dress rehearsal”
• Nominal $300 project budget; more available if needed
• Branding with YSU-COFSP polo shirts
• Students evaluated by mentors and fellow team members
• Projects can set up co-ops/internships & career placements
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Director of Strategy and Operations
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