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Timely opportunities

Engineering Industry Pop-Up - Food & Beverage and CPG – Monday, January 23, 1-4 pm, Wilson Hall Lounges

INDUSTRY POP UP EVENTS (IN-PERSON)
These events are designed to highlight various industries to students seeking internships & co-ops. What is a pop up? A more casual/small scale career event used to help gain brand awareness and connect with potential candidates.

Each interaction with a company enters you in a raffle to win various gift cards!
Event Format:
1-4 pm - Employers will be set up in the lobby of Wilson hall to network with students.
3-6 pm - Employers can reserve a private interview space to interview candidates identified at the event or before hand

All events will take place in Wilson Hall Lounges

Monday, Jan 23rd - Food, Beverage & CPG

https://msu.joinhandshake.com/stu/career_fairs/38008

This is a must attend event for BE students looking for internships, co-ops, or full time. We have had multiple placements with Bimbo Bakeries, USA, E & J Gallo Winery, fairlife, Hormel, & P&G. See the table below. You will find notes in this update from alumni working at these companies soliciting BE students. Even if you think you are not interested in food, these companies would have positions applicable to all BE concentrations. Network and find out the opportunities available.

Make sure to register for any event you are interested in to have your resume shared with all employers attending. Resumes must be public to be shared.

<table>
<thead>
<tr>
<th>Employer</th>
<th>Industry</th>
<th>Description &amp; Website</th>
<th>Booth Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bimbo Bakeries USA</td>
<td>Manufacturing</td>
<td>Have you ever enjoyed Brownberry® bread? A Thomas’™ English muffin or bagel? Or perhaps snacked on a Sara Lee®, Entenmann™ or Marinela® cake or donut? If the answer is yes, then you know Bimbo Bakeries USA!</td>
<td>Attending In Person Pop Up</td>
</tr>
<tr>
<td>E. &amp; J. Gallo Winery</td>
<td>Food &amp; Beverage</td>
<td>Recently ranked in Glassdoor’s Top 100 Best Place to Work 5 years in a row, #11 Best Place to Interview, and #18 Top CEO on Glassdoor, now is a great time to join E. &amp; J. Gallo Winery. Since 1933, we’ve never stopped challenging what was possible. Our founders, Ernest and Julio Gallo, had a vision to make wine enjoyable for all, shared at celebrations across America. We honor that spirit today by championing new concepts, investing in people, and not shying away from big, bold, ideas. Our portfolio holds 120+ wine and spirits brands and we are continuing to expand and grow. Our passions run deep and what unites us is an incredible culture of teamwork, sharing knowledge and collaboration.</td>
<td>Attending In Person Pop Up</td>
</tr>
<tr>
<td>Amcor</td>
<td>Manufacturing</td>
<td>Amcor is the world's largest publicly traded packaging company. Consumers touch and use our packaging every day from food staples to medical equipment and pharmaceuticals, pet food and even water. Lives are better because of our work. Our culture, talent and brand unite us, set us apart from our competition and shape our reputation as a global leader. Sustainability is paramount; we are on track for all our packaging to be reusable or recyclable by 2025. With an Amcor career, you will enjoy competitive starting wages with opportunities for incentive pay, benefit eligibility on day one and well-being programs to help you be your best self. There are</td>
<td>Attending In Person Pop Up</td>
</tr>
<tr>
<td>Company Name</td>
<td>Industry</td>
<td>Description</td>
<td>Pop-Up Type</td>
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<tr>
<td><strong>fairlife, LLC</strong></td>
<td><strong>Food &amp; Beverage</strong></td>
<td>fairlife, LLC is a Chicago-based dairy company that creates great-tasting, nutrition-rich and value-added products to nourish consumers. With more than $1B in annual retail sales, fairlife’s™ growing portfolio of delicious, lactose-free, real dairy products includes: fairlife® ultra-filtered milk; Core Power® High Protein Shakes, a sports nutrition drink to support post-workout recovery; fairlife® nutrition plan, a nutrition shake to support the journey to better health; and fairlife® Light Ice Cream. The company is driven by its values of caring for the people, animals, and planet it touches across its business. <a href="http://fairlife.com">http://fairlife.com</a></td>
<td>Attending In Person Pop Up</td>
</tr>
<tr>
<td><strong>Hormel Foods Corporation</strong></td>
<td><strong>CPG - Consumer Packaged Goods</strong></td>
<td>Inspired People. Inspired Food. Hormel Foods Corporation, based in Austin, Minn., is a global branded food company with over $9 billion in annual revenue across more than 80 countries worldwide. Its brands include Planters®, SKIPPY®, SPAM®, Hormel® Natural Choice®, Applegate®, Justin’s™®, Wholly®, Hormel® Black Label® and more than 30 other beloved brands. The company is a member of the S&amp;P 500 Index and the S&amp;P 500 Dividend Aristocrats, was named on the Global 2000 World’s Best Employers’ list by Forbes magazine for 3 years &amp; has appeared on Corporate Responsibility Magazine™. The 100 Best Corporate Citizens’ list for 12 years and has received numerous awards for its corporate responsibility and community service efforts. <a href="https://www.hormelfoods.com/careers">https://www.hormelfoods.com/careers</a></td>
<td>Attending In Person Pop Up</td>
</tr>
<tr>
<td><strong>Heartland FPG</strong></td>
<td><strong>CPG - Consumer Packaged Goods</strong></td>
<td>Heartland Food Products Group is a global leader in the consumer packaged goods (CPG) industry, producing low-calorie sweeteners, coffee, coffee creamers and liquid water enhancers. We manufacture and market Splenda, the #1 brand in the low calorie sweetener category and the most recognized in the world. <a href="https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=a9d8429a-5356-4228-86f5-cd2dac5863b5">https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=a9d8429a-5356-4228-86f5-cd2dac5863b5</a></td>
<td>Attending Virtual Pop-Up</td>
</tr>
<tr>
<td><strong>Sensient Technologies</strong></td>
<td><strong>Food &amp; Beverage</strong></td>
<td>Sensient Technologies Corporation is a leading global manufacturer and marketer of colors, flavors, and extracts. We employ advanced technologies to develop specialty food and beverage systems, cosmetic ingredients, pharmaceutical excipients, inkjet and specialty inks and colors, and other specialty and fine chemicals. Our goal is to inspire our customers in their efforts to deliver consumer-desired products that offer multi-sensorial experiences that drive brand excitement and increase sales. The color, flavor, and extracts systems we develop can be found in many leading consumer products worldwide. <a href="http://www.sensient.com">http://www.sensient.com</a></td>
<td>Attending Virtual Pop-Up</td>
</tr>
<tr>
<td><strong>Procter &amp; Gamble (P&amp;G)</strong></td>
<td><strong>CPG - Consumer</strong></td>
<td>P&amp;G was founded over 180 years ago as a simple soap and candle company. Today, we are the world’s largest consumer goods company and home to iconic, trusted brands that make life a little</td>
<td>Attending Virtual Pop-Up</td>
</tr>
</tbody>
</table>

Packaged Goods

bit easier in small but meaningful ways. We’ve spanned three centuries thanks to three simple ideas: leadership, innovation and citizenship.

The insight, innovation and passion of talented teams has helped us grow into a global company that is governed responsibly and ethically, that is open and transparent, and that supports good causes and protects the environment. This is a place where you can be proud to work and do something that matters. https://www.pgcareers.com

| The Clorox Company | CPG - Consumer Packaged Goods | The Clorox Company (NYSE: CLX) is a leading multinational manufacturer and marketer of consumer and professional products with approximately 8,800 employees worldwide and fiscal year 2020 sales of $6.7 billion. Clorox markets some of the most trusted and recognized consumer brand names, including its namesake bleach and cleaning products;

The company also markets industry-leading products and technologies for professional customers, including those sold under the CloroxPro and Clorox Healthcare® brand names. Nearly 80% of the company’s sales are generated from brands that hold the No. 1 or No. 2 market share positions in their categories http://www.thecloroxcompany.com |

| Attending Virtual Pop-Up |

First BE Club meeting Spring Semester, Monday, January 23, 6:30 pm 218 Farrall

Who: All BE students
What: Join the BE Club for a night of trivia fun!
When: Monday, Jan. 23, 2023, 6:30 pm
Where: 118 Farrall Hall

Engineering Seniors (and Recent Grads - Resume Book)
Attention Engineering Seniors and Recent Grads:

If you are a member of the Dec 2021 - Aug 2023 MSU Engineering Graduation Class (Dec, May, or August) and seeking a Full-time opportunity, please upload your resume as a PDF to this posting:


This will put your resume in to our 2022-2023 Senior Resume book that goes out to over 500 employers over the 2022-2023 Recruiting Year.

NOTE: If you have already found a position (or committed to Graduate School) please complete our Outcomes Survey at: https://msu.12twenty.com

Go Green!

The Center / Engineering Careers Office
C-108 Wilson Hall
Full Time

Fairlife - Operations Management Trainee
From Robert Munro, BE alumni.
Dr. Reese, check out this new program we are starting. We intend for it to be like the Nestle program.

Graduating Seniors, check out fairlife's Operations Management Trainee program! Let me know if you are interested in this opportunity.

https://www.linkedin.com/jobs/view/3393662282/?refId=Yy6nkaYCQOu59ZcCqhrfIA%3D%3D&trackingId=Yy6nkaYCQOu59ZcCqhrfIA%3D%3D

Environmental Engineer 9-P11 (Warren-PWU)
Here is another engineering position to kick off the “hiring season.” Additionally, there are a large amount of student assistant positions posted right now.


Best,

Douglas Bridges (he/him/his)
Environmental Engineer

Internships/Part Time

Undergraduate Research Position – BAE Department
From one of our recent new faculty hires looking for help in machine vision system prototyping for automated grading of specialty crop commodities.

Hi Luke,

I hope you had a good week.

I am planning to recruit one undergraduate student. Attached please find a brief position flyer. Could you please help me circulate among our students? Let me know if you have any questions.

Best regards,

Yuzhen

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Yuzhen Lu, Ph.D.
Assistant Professor, Biosystems & Agricultural Engineering
Michigan State University
524 S. Shaw Lane, 211 Farrall Hall, East Lansing, MI 48824
luyuzhen@msu.edu |517-353-4517| https://www.yuzhenlu.com/

See the attached details and drop off your resume <UGRA_machinevision_position.pdf>
KBS Summer Programs - research and internship opportunities available!
Applications for Kellogg Biological Station (KBS) summer programs are open, apply now before the **February 15th deadline**! Students who spend a summer at KBS will gain a wide variety of research and professional experiences and become part of a close-knit community at our world-renowned biological station on beautiful Gull Lake. For more information, check out the KBS undergraduate program webpage [here](#).

Our summer 2023 research and internship opportunities will run from May 14-July 29th and include:

**Undergraduate Research Apprentice (URA) positions**- The KBS URA is a part-time **paid** research position to work with a KBS lab/research group. Includes a full room & board scholarship! No prior research experience is required.

**Undergraduate Internships**- KBS internships offer a variety of part-time **paid** professional experiences to undergraduate students- including avian care, forestry, and communications. Includes a full room & board scholarship!

**Research Experience for Undergraduates (REU) positions**- The NSF-funded REU experience is a full-time **paid** research position to work with a KBS lab/research group. Includes full room & board as well as research supply budget. No prior research experience is required.

Our [summer field courses](#) for 2023 will include BS 162, IBIO 355/L, FW 417, and PLB 418.

***Please note that a variety of need-based scholarships are available to help cover tuition costs for our summer courses! ***

We will be accepting applications for our URA, REU, and Intern positions through **February 15th 2023** (extended from original deadline of Feb 1st). Our summer field course request form will remain open until courses begin. Underrepresented, low income, first-generation college and veteran students are strongly encouraged to apply for the KBS summer programs.

If you would like to learn more about our summer programs, please contact us [kbssummer@msu.edu](mailto:kbssummer@msu.edu)

Local or Remote Internships & Student Jobs in Handshake (332)
Attached “Local Remote Internships Jobs 1-17-23.xlsx” are **107 current internship opportunities and part-time jobs with MSU departments** along with **225 internships or part-time jobs with employers in the greater Lansing area**. All 332 internships and part-time jobs are posted in your [Handshake account](https://msu.joinhandshake.com) as of Tuesday, January 17. Students can pull up an updated list any time in their Handshake account by searching for the keyword “MSU.”

Note that many part-time MSU job postings are looking for 10+ student hires! There are 142 MSU and Local off campus internship posted in Handshake! It pays to apply for jobs as soon as possible as **employers sometimes close postings quickly**. You can learn more about AND apply for jobs through your free online [Handshake service](https://msu.joinhandshake.com).
Once at Handshake, you will need to fill out your profile and upload your resume. With your profile and resume in place, you will be able to search for job openings and submit applications by clicking on the "Apply" button in the job description or following the employer’s instructions.

Here is how to quickly find a specific job posting in Handshake:
1) Log in to your student account in Handshake at msu.joinHandshake.com
2) Copy and paste a Job ID number from the attached spreadsheet into the search box
3) Click search, click on the job title, read the details, and apply if appropriate

Good luck with your student job or internship search!

MSU Career Services Network
CareerServices@csp.msu.edu
(517) 355-9510
CareerNetwork.msu.edu

Great Lakes Packing Company - Student Internship Opportunities
Summer 2023 - Hart, MI & Kewadin, MI

These are great career experiences regardless of any concentration you might have choose. There give you experience with professionals, engineers, time management, communication, problem solving, project completion, and so much more. For BE students, the new Kewadin General Manager is Kyle McLachlin, a 2013 BE alum. Previously Kyle was with Hillshire Brands, Tyson Foods, Sara Lee, and while at MSU he was an undergraduate research assistant for the department’s Anaerobic Digestion Research and Education Center. Kyle reached out to me directly for assistance filling these positions. I asked him to provide some context to the positions and how they would benefit a BE major. Kyle will be on campus at some upcoming career fairs and will be present at some club event(s). These positions are all on Handshake ready for application. Even if you only have a spark of interest, apply, and learn more. The Traverse City area is not a bad place to be for a summer and I believe they have housing options.

“A few weeks ago, I sat in on a meeting with Larry Zink from MSU, along with some of my colleagues from GLPC. Larry outlined some opportunities we are going to participate in (see attached). We have signed up to participate in all three of the career fairs and are in the process posting our open roles on HandShake.

I believe we have somewhere around 14 positions we would like to fill between our 2 locations in Hart, Mi and Kewadin, MI. The pdf is an example of the roles we would like to hire students on for.

I would be more than happy to set up a call with some of the folks on our team at GLPC and you to talk through any potential opportunities there might be to recruit some MSU BAE students.

Thank you and have a great holiday season!

Kyle McLachlan
Kewadin General Manager
Great Lakes Packing Company
Great Lakes Cherry, LLC
https://www.greatlakespacking.com/
https://www.shorelinefruit.com/
6556 Quarterline Road
Kewadin, MI 49648
Office: 231-264-5561 Ext. 203
Mobile: 231-620-1669

Attached please find <2023 EMPLOYMENT OPPORTUNITIES-Descriptions-BE .pdf>
This is how Kyle described positions and BE experiences:

2023 Internship Program – Employment Opportunities

**Quality Assurance Specialist (Kewadin, MI & Hart, MI)**

**Kewadin** - Coordinates efforts that are necessary to maintain GLPC’s high standards of quality and food safety, needed to satisfy market demand. Duties include training and monitoring quality personnel; ensuring the functionality of color sorters and pit detectors; overseeing daily sanitation measures; and assisting with environmental monitoring procedures. Completes the micro-sampling and micro-testing of finished product. Assisting with third-party audits and inspections. (Housing available at low cost and ability to speak Spanish is a plus)

**Hart** – Coordinates efforts that are necessary to maintain GLPC’s high standards of quality and food safety, needed to satisfy market demand. Works closely with the SQF Practitioner. Responsibilities will be varied and may include compiling product samples, monitoring chemical levels, overseeing quality documentation, and assisting with third-party audits and inspections. (Housing available at low cost and ability to speak Spanish is a plus)

Biosystems engineering applications
- Support management of Food Safety Systems
  - Develop management skills such as training team members, monitoring participation, completing GMP audits, enforcing corrective actions etc.
  - Learn about Safe Quality Foods (SQF) programs. SQF is a critical Global Food Safety Initiative (GFSI) recognized auditing system that nearly all food industry professionals will encounter in their career.
  - Sanitation execution, micro sample collection, and sample results processing would be an excellent feedback loop for effective industrial sanitation in a food manufacturing environment.

**Quality Technician (Kewadin, MI & Hart, MI)**

**Kewadin** - As production begins, takes samples of cherries, scores the product in the sample according to the USDA Standard for Pitted Tart Cherries, records the results and enters the data into the Fresh Product System. Duties also include keeping the Quality Assurance Specialist informed about the status of quality and seeks advice and involvement of the Floor Supervisor before a potential risk of quality creates a grade change. (Housing available at low cost and ability to speak Spanish is a plus)

**Hart** - As production begins, takes samples of cherries, scores the product in the sample according to the USDA Standard for Pitted Tart Cherries and records the results. Duties also include keeping the Quality Assurance Specialist informed about the status of quality and seeks advice and involvement of the Floor Supervisor before a potential risk of quality creates a grade change. (Housing available at low cost and ability to speak Spanish is a plus)

Biosystems engineering applications
- Examples of real-world data collection, data entry, corrective action initiation and documentation
- Develop skills working within a Quality Assurance team making decisions about how best to deploy resources to maintain or improve quality characteristics.
- Develop skills necessary to ensure compliance with USDA regulated commodities.

**Product Tracker (Kewadin, MI & Hart, MI)**

**Kewadin** - Works with the Plant Supervisor & Forklift Drivers to coordinate the transferal of fresh cherries from the receiving area into the processing area. Connects field records from raw product to finished product and initiates records for prepped stock and juice stock recovered from the processing lines via our Fresh Product System. (Housing available at low cost and ability to speak Spanish is a plus)

**Hart** - The Tracker works with the Plant Manager, Forklift Drivers, and Tracker Assistant to manage the flow of raw product into production. Responsibilities include maintaining oversight of raw product inventory before dumping, receiving local deliveries of cherries, keeping proper records of dump times and grading information, and communicating with the Raw Product Specialist. (Housing available at low cost and ability to speak Spanish is a plus)

Biosystems engineering applications
• Develop management skills, directing incoming raw materials to their correct processing locations.
• Make decisions regarding ingredient yields and value stream maximization.
• Coordinate actions and make decisions based on feedback provided by the Quality Assurance team.

**Production Control (Kewadin, MI & Hart, MI)**
Completes the production process by coding and labeling finished product and by recording data for the company trace and inventory programs. Production Control alerts the SQF Practitioner of any digression from specifications, verifies metal detection, and assists supervisors with maintaining efficiency of the production line. (Housing available at low cost and ability to speak Spanish is a plus)
Biosystems engineering applications
• Collects and maintains Farm to Packaging lot data necessary for an effective trace/hold quality assurance program.
• Verifies functionality of food safety equipment and compliance with HACCP plans.
• Supports Operations functions to improve line performance and troubleshoot problems.

**Raw Product Specialist (Hart, MI)**
The Raw Product Specialist supports the Tracker by managing data concerning raw product. Enters product information and dump data into the system, helps maintain oversight of raw inventory, reconciles shift totals, and clarifies discrepancies. Responsibilities include receiving local deliveries of cherries and completing bills of lading for shipments. (Housing available at low cost and ability to speak Spanish is a plus)
Biosystems engineering applications
• Develop management skills, directing incoming raw materials to their correct processing locations.
• Make decisions regarding ingredient yields and value stream maximization.
• Coordinate and make decisions based on feedback provided by the Quality Assurance team.

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**E.J. Gallo**
Happy New Years! I hope you are doing well after that crazy blizzard!

The application link for our Process Tech Engineering Internship just went live, and we are starting interviews in a few weeks on a rolling basis.

Can you please forward the application link and my contact info to any interested students? We have had great success with our BE’s out here!

Please note that this internship is California-based (Jun-Dec):

https://tinyurl.com/PTEng2023

Please reach out with any questions, and please see below for the detailed internship description.

Best regards,
Joseph Kretowicz
Winery Systems Engineer
C: 559-477-8278
O: 559-458-2629
E & J Gallo Winery
5610 E Olive Ave
Fresno, CA 93727
The E&J Gallo wineries located in Livingston, Modesto, and Fresno are world-class centers to produce domestic and international wines. This internship provides the opportunity to work within one of these facilities and partner closely with a cross-functional team to execute Engineering projects during the grape harvest. Interns will have the opportunity to work alongside professional technology managers, gaining valuable hands-on expertise in a variety of areas at the Winery. The Process Technology Development Internship Program for Engineers is searching for appropriate candidates to fill 6-month positions within our Process Technology Department. Interns will work with cross-functional teams, including operations, winemaking, engineering, and operators to execute technology projects that are undertaken during the harvest season. This is an excellent opportunity to gain hands-on experience in a lab or production environment and increase your skill base for future employment or graduate school. Working closely with cross functional teams, interns’ essential functions are as follows:

- Assist in the development and scale-up of new technologies for the Winery.
- Participate in technology projects and assist in managing a portion of an ongoing development project.
- Updates standards, policies, specifications, and procedures as assigned.
- Monitors and ensures achievement of project goals, objectives, and timelines.
- Solves technical problems and issues.
- Communicates project status.

Minimum Qualifications
- High school diploma or State-issued equivalency certificate.
- Currently enrolled at a college or university and working towards a Bachelor’s or Master’s degree in the School of Engineering or have obtained a Bachelor’s or Master’s degree from the School of Engineering.
- Candidates for this position must have a valid driver’s license and a safe driving record. Required to obtain a California driver’s license or appropriate state driver’s license within 30 days of hire.
- Available for the entire duration of this internship program – mid-June 2023 through mid-December 2023.
- Required to lift and move up to 40 lb when necessary.
- Required to work at heights of 50 feet, on tops of tanks inspecting wine surfaces when necessary.
- Requires availability to work evenings, weekends, and holidays when necessary.

Compensation
- Hiring Hourly Range Posted: $24-$27
- Actual compensation paid within the range will be determined by factors such as the education, experience, knowledge, skills and abilities of the applicant, internal equity, and alignment with market data.

Preferred Qualifications
- Junior or Senior class standing at a college or university and working towards a Bachelor’s degree in the School of Engineering.
- Strong applied technical skills and analytical problem-solving skills.
- Excellent organizational and team skills and experience managing multiple assignments.
- Comfortable in a manufacturing environment.
- Mechanical inclination and an aptitude for design of equipment and manufacturing processes.

Physical Demands and Work Environment
- Inside/Outside conditions: During crush, work estimated at least 50% (but not limited to) outside with weather of varying types.
- Wet/Slippery conditions vary and may include working in rain.
- Noise levels may vary. Occasional situations where ear protection is required.

Gallo does not sponsor for employment-based visas for this position now or in the future. Please note: Individuals utilizing CPT/OPT/AT will not be eligible for this internship as this is a temporary status to work in the United States and will require future sponsorship once that time has expired.
Gallo is an Equal Employment opportunity and Affirmative Action Employer. We do not discriminate on the basis of race, traits historically associated with race, including but not limited to, hair texture and protective hairstyles (such as braids, locks, and twists), color, national origin, ancestry, creed, religion, physical disability, mental disability, medical condition as defined by applicable state law (including cancer and predisposing genetic characteristics in California), genetic information, marital status, familial status, sex, gender, gender identity, gender expression, pregnancy, childbirth or related medical conditions, sexual orientation (actual or perceived), transgender status, sex stereotyping, age, military or veteran status, domestic violence or sexual assault victim status, or any other basis protected by applicable law.
We also consider qualified applicants with criminal histories, consistent with applicable federal, state, and local law. Gallo is committed to providing reasonable accommodations for candidates with disabilities in our recruiting process. If you need any assistance or accommodations due to a disability, please let us know at 209.341.7000.

**Disney Programs**

Have you ever considered studying, experiencing, and creating magic on a Disney College Program? Do you have a few questions first? You are in luck because we are here to help.

The “Get to know the Disney College Program” information sessions are back! During this information session, Disney College Program recruiters will go over general information and all components of the College Program experience and answer common questions. Learn everything you need to know as you prepare to study, experience, and create the magic of Walt Disney World® Resort!

The “Get to Know the Disney College Program” virtual information sessions will begin Jan. 10 and continue through Feb. 16. For dates, times and how to join, read more on the Disney Programs Blog.

Our recruiters look forward to meeting you and helping you on your way toward applying to a Disney College Program! See you then!

**Disney Programs Recruitment**

Questions? View our Frequently Asked Questions | Disney Programs Support

**Education Abroad**

**Ecological Engineering in the Tropics Costa Rica Information Meeting, January 30, 5 pm, 208 Farrall**

Hola,

After 4 years of not offering any faculty led education abroad program, we are relaunching the Ecological Engineering in the Tropics Costa Rica program May 9-23, 2023. The program will be led by Dr. Liao who had coordinated the program the last two time it ran. Normally we have done the program during winter break; however, the coordination to make that work while dealing with Christmas and New Year’s Day holidays is a challenge. Thus, the reason we are moving the program to summer 2023. The program is only 2 weeks long which would allow for additional career-based experiences upon your return (e.g., part time job, internship, research). We are still working on in-county planning and costs to set a firm program cost. We anticipate the cost of the airfare to be significantly less than the inflated holiday rates during winter break and the exchange rate is good. The program is longer (14 days), but we are hoping to keep costs close to the previous programs. We have students and faculty from the University of Costa
Rica Biosystems Engineering department participate as part of the program to enrich the cultural learning and exchange. Check out https://cr2017studyabroad.wordpress.com/ to get a sense of the diverse learning experience.

Join Dr. Liao Monday, January 30, 5:00 pm, 208 Farrall for an information meeting. Bring your questions and sign up to experience “Pura Vida.”

Undergraduate Research

Engineering Summer Undergraduate Research Experience (EnSURE) now accepting applications.
For complete information, please visit https://www.egr.msu.edu/graduate/ensure or talk directly to a BAE or Engineering faculty you might want to work with.

Student applications must be submitted by January 31, 2023, for full consideration. After that deadline, applications will continue to be accepted until the program fills - but late applicants are not guaranteed that their materials will be reviewed since faculty mentors may already have chosen their students.

The EnSURE (Engineering Summer Undergraduate Research Experience) program at Michigan State University offers summer research opportunities for high achieving undergraduates who are studying at institutions in the United States or Puerto Rico.

During Summer 2023, the EnSURE program will take place from May 22 through July 28, 2023.

At this time, we plan to offer EnSURE as a fully in-person experience during Summer 2023. Students who apply to the program should expect to be working in-person, on the MSU campus. EnSURE participants are MSU employees, and must agree to comply with all employment requirements, including any pandemic-related directives that may be in place during Summer 2023. Students who choose not to comply will not be able to participate in or be paid by EnSURE. Current directives can be found here: https://msu.edu/together-we-will/

EnSURE is an "internship in graduate school" and provides participants with an early opportunity to become involved in research by working with faculty mentors in one of eight Engineering departments:

- Biomedical Engineering
Curious about what the undergraduate research experience is all about? Check out this video, featuring an EnSURE program alumna and other undergraduates from MSU.

**Expectations and Eligibility**
As part of EnSURE, students work full-time on a substantive, faculty-guided research project and participate in professional development activities, including attending weekly seminars and completing periodic writing assignments. Due to the intensive nature of this program, it is expected that students will not enroll in summer coursework or accept other employment during the work week. At the discretion of the faculty mentor, it may be possible for students to enroll in limited (4 credits or less) online coursework or independent study; the student is responsible for any enrollment fees.

Applicants must meet all the following criteria:

- current undergraduate student, studying at an institution in the United States or Puerto Rico, from any institution or major.
- eligible for employment in the USA (you must have a social security card before the EnSURE program starts)
- returning for one or more semesters of undergraduate study after Summer 2023 (i.e., not graduating before December 2023)
- minimum cumulative GPA of 3.20 (on a 4.0 scale)
- able to commit to full-time employment during the 10-week summer program (May 22 to July 28, 2023)
- not taking classes during Summer 2022 (exceptions may be made for up to 4 credits of online coursework, with permission from the faculty mentor)
- at least 18 years old by May 1, 2023

**Compensation and Housing**
Students participating in the summer research experience are paid a minimum of $16.00 per hour and typically work 40 hours per week for 10 weeks (up to $6,400 in total compensation). Participants are considered student employees of MSU and are responsible for applicable taxes. Students are responsible for their own meals, housing, transportation and personal expenses; a variety of housing options are available both on-campus (liveon.msu.edu) and in the surrounding area (elmanac.msu.edu).

**Application Timeline**
Applications for EnSURE are reviewed starting in December and selections are made on a rolling basis until the program is filled. Students will be notified if they are selected by a faculty mentor and will have approximately 2 weeks to accept or reject the offer to participate in EnSURE. Based on previous years, we expect that the majority of the EnSURE selections will be made by March 15. Please note that priority is given to students who have not previously
Ready to Apply?
The EnSURE program application requires basic contact and demographic information, a resume (.pdf format) and an unofficial transcript (a .pdf printout of your University's grade reporting system is sufficient). Applicants must also submit brief statements (about 500 words each) explaining why you want to participate in EnSURE (what do you hope to learn? do you have any specific skills or prior research experience to contribute?) and why you think it is valuable to foster inclusion and diversity in engineering. You should use these statements as an opportunity to expand briefly on the skills and experiences you must contribute, and/or what you hope to learn from participating in this summer program.

**APPLY HERE for EnSURE 2023.** Applications will be accepted on a rolling basis, but **for full consideration, applications must be submitted by January 31, 2023.** Selected students will be notified by email.

Other Research Opportunities
We typically receive far more applications from outstanding students than we can accommodate in the program; in previous years, we were only able to offer summer positions to 20-30% of applicants. In addition to applying to our summer research program, you may be interested in on-campus opportunities found through venture.msu.edu, in nationwide undergraduate research programs sponsored by the National Science Foundation, and in the SROP (Summer Research Opportunities Program) sponsored by the CIC. Students with experience in composites and materials may also wish to consider the IACMI Internship Program. MSU students can also identify a variety of on- and off-campus positions on MySpartanCareer.com.

Information for Faculty: [https://www.egr.msu.edu/graduate/ensure-faculty-mentors](https://www.egr.msu.edu/graduate/ensure-faculty-mentors)

**UURAF overview with resources for mentors and students**
Dear Colleagues:
The 25th University Undergraduate Research and Arts Forum (UURAF) will be held on Friday, April 14, 2023, at the Breslin Center and online through Symposium by ForagerOne. We invite all undergraduates with research and creative scholarship experiences to share their work with the MSU community.

**Research and Creative Activity Accepted**
- Current students or December 2022 graduates
- Preliminary, in progress, or completed work.
- Fall, spring, summer, or multiple semesters.
- Mentored research in all forms, including course-based research, Education Abroad, Community-based participatory research.
- Anywhere research is located – MSU facilities, other institutions, internships, summer experiences, and more.
- Newly prepared or previously presented at other venues.

**Modalities**
- Each presentation will be scheduled either onsite or online. Judging will occur in the assigned presentation modality.
• Oral presentations will only be online due to low attendance and event space constraints.
• Onsite (Breslin Center): posters, performances, exhibits
• Online (asynchronous): orals, films; plus virtual posters, performances, exhibits

Key Dates for All Presentations
• Registration is now open and closes on February 9 at 11:59 PM. Registration saves a spot at UURAF. Draft abstracts/proposals are permitted.
• Presentation timeslots will be announced by February 24
• Final edits to abstracts/proposals due on March 3 at 11:59 PM
• All presenters must complete Level 1 Responsible Conduct of Research (RCR) training by April 7. Students will be contacted if they have not previously completed RCR

Special Requirements for Online Presentations
• Presentation materials must be submitted by Sunday, April 9 at 11:59 PM. Late submissions will not be judged. Judging is asynchronous.
• Opportunities for live interactions with other presenters and visitors will be available on April 14

New this year—Graduate School Recruitment Fair!
• MSU graduate programs are invited to participate in the graduate school recruitment fair at UURAF. The fair will run concurrently with UURAF presentations. The $75 registration fee includes: lunch for up to two recruiters, a 6-foot table, and validated parking. There is a $30 charge for additional recruiters. Virtual table space is included at no additional charge. Registration will open January 17 and close in early March.

Scholarships

Biosystems and Agricultural Engineering Undergraduate Scholarships – Applications open and due February 28, 2023
The BAE Department annually awards about $50,000 (combined undergraduate and graduate) of scholarships in multiple categories. The BE application process will again use the university system which is the same as the College of Engineering will be using. Questions should be directed to Dr. Reese reesel@msu.edu. You will need to upload your resume as part of the College of Engineering application. We only need one application submitted to the Arthur W. Farrall scholarship which is the department’s most prestigious award. The BAE Scholarship Committee uses this information to make all awards. Some awards have specific student qualifications (e.g., agricultural interest, experiential learning), so you will need to answer the following questions that you can type up in MS Word to copy/paste.

1. State your long-term career goals and describe how you plan to achieve those goals. Describe one or two key experiences and how each contributed to your personal and professional development. Include experiences that have influenced your decision to study Biosystems Engineering.
2. Describe activities, especially leadership, through which you have contributed to the college, University, and/or community while at MSU. Do not include BE club or departmental activities.
3. Describe activities, especially leadership, through which you have contributed to the profession of Biosystems Engineering. Include BE club, Michigan ASABE, and BAE department activities here. Do not include activities at a college, university, and/or community.
4. How do you contribute to the multiculturalism, diversity, cultural enrichment, and inclusion in the BAE department and MSU? Include specific activities and club participation.
5. Are you a member of ASABE (Yes or No)? If yes, provide your membership number and when you joined.
6. Are you planning to use a BAE scholarship to help fund a future education abroad, study away, attend a professional conference, etc. (Yes or No)? If yes, answer this question. What future education abroad, study away, professional development, professional conference experience(s) do you anticipate participating in and when? Why did you choose these experience(s), and how do you think each will help you in your future Biosystems Engineering profession?

7. Did you grow up on a farm or have experience/interest in agriculture (relates to Hansen Scholarship) (Yes or No)? If yes, please describe your background, experience(s), and/or interest(s).

8. Do you have an interest in water resource recovery, water quality, wastewater treatment, and/or renewable energy (Relates to Mynsberge, Taylor, and Delisa Scholarships) (Yes or No)? Three BAE scholarships provide students with experiential learning in water resource recovery, water quality, wastewater treatment, and/or renewable energy. The selected student(s) will work with a BAE faculty member for the experiential learning requirement. The award has an expectation that the student presents their experience at a MSU or professional research conference. Describe your interests in water resource recovery, water quality, wastewater treatment, and/or renewable energy and briefly describe the general topic you would like to research if awarded this scholarship.

Please let me know if you have issues applying. We have a couple of unusual cases; I will need to work with for an alternative application method.

**Biosystems and Agricultural Engineering Graduate Scholarships – Applications open and due February 28, 2023**

The BAE Department annually awards over $50,000 (combined graduate and undergraduate) of scholarships in multiple categories. All BE graduate students should see a “MSU Biosystems and Ag. Engineering Graduate Scholarships” community listed on D2L. The application process can be found there. Please complete and submit to the assignment dropbox found in the same D2L community by February 28, 2022. Questions should be directed to Dr. Safferman steves@msu.edu.

**College of Engineering - Returning Undergraduate Scholarships - Applications open and due February 28, 2023**

The scholarship application process for 2022-2023 returning students is open using the new university scholarship management system. BAE will use the same system so you should ensure you apply for both BAE and Engineering scholarship. Last year we had ~15 more students who applied for Engineering scholarships than BAE. While the dollar amount below seems high, you have better odds for more funding with BAE scholarships. Bottom line, ensure you apply for both and maximize your chances.

Returning students, including current first-year students, who wish to be considered for general or discipline-based engineering scholarships must complete the scholarship application available at https://scholarships.msu.edu/. Students must fill out and submit both the general and college of engineering applications to be considered for engineering scholarships. Also, Please submit a FAFSA even if you think your income exceeds the limits it is best to apply.

The MSU College of Engineering offers more than 300 scholarships to undergraduate students each year ranging from $100 to $25,000. The Undergraduate Awards and Financial Aid Committee meets in late spring to review applications, and scholarship awards are announced in late June to early July. Incoming first-year students and current engineering students have separate selection processes.

All scholarships are contingent upon eligibility and continuing availability of funds.
ASABE – Michigan Section - Jimmy Butt Memorial Scholarships
application due February 27, 2023

Hello Michigan ASABE,

I am announcing that the Michigan Section is accepting applications for the 2023 Jimmy Butt Memorial Scholarships. There are two $500 scholarships to be awarded: one for Freshman/Sophomore and one for Junior/Senior students registered in an Agricultural Engineering or Biological Systems Engineering program at a University or College.

Applications and Essays are due on or before February 27, 2023. Please pass this information to any students that you may know who might qualify for these scholarships.

Please find the attached <Jimmy Butt Memorial Scholarship App 2023.docx> which details scholarship rules and essay questions.

Regards,

Dave Isaacs
ASABE Michigan Section
Vice-Chair Awards and Nominating

ASABE and ASABE Foundation Scholarship applications due March 15, 2023

ASABE Foundation Engineering Scholarship - $2,000 given annually
www.asabe.org/Awards-and-Competitions/Student-Awards-Competitions-Scholarships/ASABE-Foundation-Engineering-Scholarship

William J. Adams, Jr., and Marijane E. Adams Scholarship - $2,000 given annually.

Career Fairs & Expos

Ensure you have your calendar for these spring semester career fairs and expos. Winter break is an excellent time to update your resume and research companies attending these fairs. Explore who is coming on Handshake – msu.joinhandshake.com.

Engineering Industry Pop-Up - Food & Beverage and CPG
Monday, January 23, 2023, 1:00 pm - 4:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/38008

Big 10 Engineering - Diversity & Inclusion Career Event (Virtual)
Tuesday, January 24, 2023, 2:00 pm - 7:00 pm EST
MSU In-Person Diversity, Equity, and Inclusion Career Fair and Symposium
Wednesday, February 1, 2023, 3:30 pm - 8:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/36263

MSU In-Person Environmental, Energy, Natural Resources, and Sustainability Career Fair
Thursday, February 9, 2023, 12:00 pm - 4:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/37201

Engineering Industry Pop-Up - Pharma + Medical Devices
Monday, February 13, 2023, 1:00 pm - 4:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/38067

Engineering Industry Pop-Up - Civil Employer Partners
Monday, February 20, 2023, 1:00 pm - 4:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/38069

(IN-PERSON) MSU Engineering Expo 2023 DAY 1 (Computing / IT / Data Science / Technology)
Wednesday, February 22, 2023, 1:00 pm - 4:00 pm EST Munn Ice Arena
https://msu.joinhandshake.com/stu/career_fairs/37391
(IN-PERSON) MSU Engineering Expo 2023 DAY 2 (Automotive / Mobility / Manufacturing)
Thursday, February 23, 2023, 1:00 pm - 4:00 pm EST Munn Ice Arena
https://msu.joinhandshake.com/stu/career_fairs/37832

Engineering Industry Pop-Up - Civil + Environmental
Monday, February 27, 2023, 1:00 pm - 4:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/38070

MSU In-Person Spring All Majors Career and Internship Fair
Tuesday, February 28, 2023, 3:00 pm - 6:00 pm EST
https://msu.joinhandshake.com/stu/career_fairs/37121

MSU In-Person Summer Job Fair
Wednesday, March 15, 2023, 3:00 pm - 6:00 pm EDT
https://msu.joinhandshake.com/stu/career_fairs/37219

Engineered Across the Big 10 (Virtual) 2023
Tuesday, March 21, 2023, 2:00 pm - 7:00 pm EDT
ESD's Engineered in the Mitten Exchange 2023 (Virtual)
Thursday, March 30, 2023, 2:00 pm - 7:00 pm EDT
https://msu.joinhandshake.com/stu/career_fairs/38293

MSU Virtual Just in Time Career Fair
Wednesday, April 5, 2023, 2:00 pm - 5:00 pm EDT
https://msu.joinhandshake.com/stu/career_fairs/37204