April 18, 2022

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Timely opportunities

In Person BE Showcase, Thursday, April 28, 3-6:30 pm

116 Farrall Hall or https://msu.zoom.us/j/91479516263

Presented by
Faculty and Students in the Biosystems Engineering Program
College of Engineering & College of Agriculture and Natural Resources

Full Program www.egr.msu.edu/bae/SS22NewsBEShowcase

Project Evaluations (By Private Invitation - Advisory Board, Industry Evaluators, and Project Sponsors)

1:30 pm & 2:10 pm - Individual Senior Design Team Evaluations

Senior Design Team Presentations (10 minutes each) 116 Farrall or msu.zoom.us/j/91479516263 (Open to all – no registration required)

3:00 pm - Team Go BIGGBY® or Go Home - BIGGBY® COFFEE (project under Non-Disclosure Agreement) - BIGGBY® COFFEE store-level environmental assessment: Data analysis and visualizations - Emily Ajemian, Taryn Hanses, Ashley Hestad, & Chris Wentworth
3:10 pm - Team InCraysive - Michigan Department of Natural Resources - Reducing labor with an improved red swamp crayfish capturing device - Adam Harris, Michael Kaven, Alayna Peterson, & Brenna Tiernan

3:20 pm - Team DOD - Department of Defense - Nitrogen stripping and ozonation columns for wastewater treatment at remote army bases - Skijlar Howerzyl, Arun Kammanadiminti, Jack Kivi, & Melanie Stoughton

3:30 pm - Team Grobbel - E W Grobbel (project under Non-Disclosure Agreement) - Optimizing an ozone processing system against E. coli on whole-muscle beef - Tala Abdulqader, Ian Klug, Andrea Ma, & Kase Nelson

3:40 pm - Break

3:45 pm - Team Whey Stream - Tillamook (project under Non-Disclosure Agreement) - Whey protein and lactose recovery - Peyton Carroll, Hannah Craig Malich, Stephanie Starr, Zach Tonnerre, & Sierra Veenkant

3:55 pm - Team Perrigo - Perrigo (project under Non-Disclosure Agreement) - Packaging line improvement using Arena simulation software at a pharmaceutical plant - Chehak Arora, Katie Blouin, Maryam Ezz, & Nicolas Scamardi Zabala

4:05 pm - Team Student Organic Farm - MSU Student Organic Farm - Improved hydraulic-powered plastic mulch removal implement for MSU Student Organic Farm - Ian Chesla, Kristin Danz, Brenden Kelley, & Lisa Zou

4:15 pm - Team Goloka - Goloka Ecology Model - Microscale biogas plant design - Trenten Beemer, Zack Buhro, Kaitlin McHenry, & Jordan Neal

4:25 pm - Team Unilever - Unilever (project under Non-Disclosure Agreement) - Residual product recovery from manufacturing tanks for Unilever - Yassah Bah-Deh, Julie Celini, Aubrie McCleery, & Tyler Stump

4:35 pm - Break

4:40 pm - Team Frosties P53 - John Bean Technologies (JBT) Foodtech (project under Non-Disclosure Agreement) - Sterilization analysis of evaporator coil using UVC light for industrial food processing freezers - Nyilah Congress, Shreyas Ramachandran, Nick Saba, & Ashley Xu

4:50 pm - Team Greener Planet Systems - Greener Planet Systems (project under Non-Disclosure Agreement) - Mobile decentralized treatment system for domestic septage utilizing innovative aeration - Conor Crennell, Annaliese Marks, Jacob Mears, & Molly Robles

5:00 pm - Team The Red Pandas - Ingham County - Ingham County Fairgrounds and Potter Park Zoo organic waste management - Brian Bilan, Sidney Fenton, Erica Peer, & Alex Seybold

5:10 pm - Team USGS - United States Geological Survey (project under Non-Disclosure Agreement) - Sterilization of male sea lampreys with Bisazir - Madalyn Allen, Catherine Christenson, Ryan Snyder, & Jacob Soullier

5:20 pm - Acknowledgements and Wrap up (Dr. Brad Marks, BAE Department Chair)

Reception 114 Farrall (Open to all – no registration required)

5:30 pm - Reception for Senior Design students, families, guests, faculty, staff, & industry partners

BE 230 Poster Session 1st floor Farrall hallway (Open to all – no registration required)

5:30 pm - BE 230 Poster Session www.egr.msu.edu/bae/SS22NewsBE230PosterShowcase

In-Person Design Day, Friday, April 29, 8 am - noon, Engineering building

Dear Spartan Engineers,

We are pleased to announce that we will be hosting Design Day in person once again for the first time since the fall of 2019. Design Day will be held on Friday, April 29 from 8:00 a.m. till noon when the capstone projects from all of our academic programs will be on display throughout the building.

As we continue to emerge from the pandemic, a few things will be different. We will be spreading the project displays throughout the building to allow for increased social distancing. We will not be
hosting a College-wide awards ceremony, but rather individual programs will host awards ceremony instead.

Please join us to show our support of our future Spartan Engineering graduates!

Best wishes,
Dean Leo Kempel

90-Minute Job Search Workshop - Thurs, April 21, 4-5:30 PM
Please share with your students who are “stuck” in their job search or are struggling to find a summer internship or full-time job despite the fact we have a record number of opportunities!

Thus, I have scheduled a “90-Minute Job Search Workshop: Work Smarter, Not Harder” session on Thursday 4/21/2022, from 4-5:30 PM in the SSB Presentation Suite. This will be a hands-on workshop where in 90 minutes participants will go through the following steps to make immediate progress on their goal:

AGENDA
Finding New Job Leads (20 Min)
Aligning Your Resume to the Job (15 Min)
Sourcing Networking Leads (10 Min)
Developing & Sending Communication to Networking Leads (10 Min)
Writing your Cover Letter (20 Min)
Finalizing Your Application (10 Min)
Record Keeping (5 Min)

Jill Cords (she, her, hers)
Career Consultant, Michigan State University
College of Agriculture & Natural Resources

517-355-0234
jcords@msu.edu

BE Resume Book - last version of the academic year.

Last call for the spring BE Resume Book. I just had a request for the resume book this week for a company looking for interns and full time. If you would like to update your resume or add your resume for the first time to the BE Resume Book, please email your 1-page resume in MS Word or pdf format to reesel@msu.edu by Sunday, April 24.
Attention Engineering Faculty and Staff:

The Center - Engineering Career Office, is kicking off our month long campaign to collect student placement data! This year we are focusing on all students, Freshman through Grad student - intern, Co-op, Summer, Fulltime, Studying, Backpacking, Still Looking...we want it all!

**How can you help?**
Direct students to head over to [https://msu.12twenty.com](https://msu.12twenty.com) and report their plans!

As a reminder, the data from this survey helps us create reports on salary, destination data and ABET reports.

We will also be hosting multiple events in EB and Wilson to collect data as well. Coffee and treats will be provided so make sure to send students over!

- April 20 afternoon (EB Lobby, 2:30 - 4:30p) - Starbucks Coffee and MSU Bakery Store Cookies
- April 21st (Wilson Courtyard 11AM - 2PM) - Ice Cream Treats PLUS Special Guests (Lansing 5:01 / MSUFCU)
- April 27th (EB Courtyard 1-4PM) - Ice Cream Treats PLUS Special Guests (Alumni Office / Lansing 5:01 / MSUFCU)

Thank You in Advance for your Assistance and as Always, Go Green!

Bernadette, Jane, Kylie, Rachel and Garth
The Center Career Team - College of Engineering
C-108 Wilson Hall
p: (517) 355-5163
e: careers@egr.msu.edu

**Corteva Agriscience’s Developing Emerging Leaders and Talent in Agriculture (DELTa) symposium - apply by June 3**

Hi Luke,
Attached is a flyer regarding Corteva Agriscience’s Developing Emerging Leaders and Talent in Agriculture (DELTA) symposium. Participant requirements are included in the flyer. Please share with students and fellow MSU faculty and staff as you see fit!

Thanks!
Lisa

See attached <DELTA Symposium One-Pager_Final.pdf>

Free ASABE Undergraduate Student Memberships

This email is to communicate new and exciting opportunities available for undergraduate students interested in ag & bio engineering, ag technology or systems management, or related fields. Recognizing the difficulty remote, distance, and hybrid learning placed on student engagement within the Society, the ASABE Board of Trustees has voted to make undergraduate student membership dues free for 2022! An undergraduate student can sign-up online at https://join.asabe.org/p1.cfm and receive the full benefits of membership without cost. An undergraduate student may join for free from now through the entire 2022 calendar year, however, the free membership will end on 12/31/2022 regardless of the join date. Undergraduate students who are currently a member and have not graduated have automatically been renewed at no cost.

An overview of the exciting additional opportunities:

- Free ASABE undergraduate student membership for 2022
- $500 Grant for ASABE Student Branch/University BAE Club. The academic institution that has the most undergraduate students join will receive a $500 grant for their ASABE Student Branch/University BAE Club. The membership sign-up deadline count for this grant is September 30, 2022
- Access to all student competitions, awards, and scholarships

NOTE: If you are graduating, this student membership will roll over to an additional free 1-year Young Professionals membership. This will not occur if you remain a student in a graduate program. The bonus free year which will happen automatically is only valid if you have submitted the undergraduate form. Apply now if you have not done so! It will take you all of 5 minutes.

Recent Handshake Opportunities

**DTE**  DTE Energy

Job: Data Scientist

Employer: DTE Energy

Apply before Friday, April 22, 2022, 7:55 pm EDT

Aspen Surgical Operations Management Internship

Caledonia, Michigan, United States

https://msu.joinhandshake.com/stu/employers/70564
**Alexion Pharmaceuticals, Inc.**

**Job:** HEOR Analytics Summer Intern  
**Employer:** Alexion Pharmaceuticals, Inc.  
**Apply before** Monday, May 30, 2022, 11:55 pm EDT

**Production Management Development Associate**

Nestlé Purina • Clinton, IA

**Management Trainee**

Advanced Drainage Systems, Inc. • Hilliard, OH and 6 more

**Operations Supervisor**

The Estée Lauder Companies, Inc. • Bristol, PA

**Kerry**

**Job:** Production Supervisor Graduate Opportunity for the Applied Health and Nutrition Division  
**Employer:** Kerry  
**Apply before** Friday, May 20, 2022, 6:00 pm EDT

**Cargill**

**Job:** Engineer (Full-Time) 2022  
**Employer:** Cargill  
**Apply before** Friday, April 29, 2022, 11:55 pm EDT

**ADM**

**Job:** OCM Intern  
**Employer:** ADM  
**Apply before** Wednesday, April 20, 2022, 10:10 am EDT

**The Hershey Company**

**Job:** Continuous Improvement - Engineering Co-Op (2022-2023)  
**Employer:** The Hershey Company  
**Apply before** Wednesday, June 1, 2022, 8:25 am EDT
Internships/Part Time

MSU Local Internships_Jobs in Handshake (433)
Attached “MSU Local Internships Jobs 4-18-22.xlsx” is a list of 185 internships or part-time jobs with MSU departments, along with 233 internships or part-time jobs with employers in the greater Lansing area. All 433 internships and part-time jobs are posted in your Handshake account at the CareerNetwork.msu.edu website.

It pays to apply for internships and jobs as soon as possible as employers sometimes close postings quickly. You can learn more about AND apply for internships through your free online Handshake service. Log in to your Handshake account directly at 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 internship, job openings, and submit applications by clicking on the “Apply” button in the job description or by following the employer’s instructions.

Here is how to quickly locate 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 internship search!

MSU Career Services Network
CareerServices@csp.msu.edu
CareerNetwork.msu.edu

Summer job - MSU Dairy Store

Job Posting for Dairy Store

Hi Jamie,

We are looking for some student workers at the Dairy Store. Would you be able to share with BAE students?

https://msu.joinhandshake.com/emp/jobs/6241769/edit?initial_page=4

Thanks!

Mollie Woods
Director, MSU Product Center
(517)281-3100
**Summer job - MSU Mobile Boat Wash**
MSU Extension's Mobile Boat Wash program is looking for a few more applicants for Mobile Boat Wash Technicians, crew leader and crew member positions. The Mobile Boat Wash Technician position holds responsibilities for stopping aquatic invasive species through boater education and hands on outreach while traveling from lake to lake across Michigan.

Ideal candidates should be able to travel around the state with occasional overnight stays, coursework in aquatic ecology or related fields, interested in outreach and freshwater management, and some experience in educational programming is desirable but not required. Salary ranges from $15 - $16 and positions are open until end of day May 1st with the possibility of extension if not filled. Please email Kelsey Bockelman at bockelm4@msu.edu for any questions.

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Best,

Kelsey Bockelman | Aquatic Invasive Species Educator
Michigan State University Extension

616.632.7878 (office)
bockelm4@msu.edu

**Full Time**

**Environmental Quality Analyst 9-P11 (Marquette District Office)**
Here is a permitting position in Marquette.

Douglas Clements
Environmental Engineer
Water Resources Division


**UGA Food Science and Technology - Pilot Plant Manager and Extension Program Coordinator Position**
Hi Dr. Reese and Dr. Safferman,

I am wondering if you could share these opportunities to BAE students. They are both in the Department of Food Science and Technology at UGA’s Athens campus. I am happy to help answer any questions students may have about the department and living in Athens.

Cheers (with a sweet tea, of course!)

Kaitlyn Casulli, Ph.D.
Department of Food Science and Technology
Assistant Professor and Processing Specialist
Cargill - Operations Management Associate 2022-Protein/Food Manufacturing (Multiple U.S. Locations)

We have a lot of opportunities within Operations Full Time Management Associates and are recruiting folks with the following qualifications. If there are graduates from May 2019 through Summer 2022 and are looking to start a new career path – please have them apply!

And just to state again – we do have opportunities here in Michigan in Lake Odessa. Our company is growing and there are a lot of opportunities for career growth!

Thanks and Go Green!

Chris

**Required Qualifications:**
Currently pursuing or completed one or more of the following:

- A Bachelor’s degree completed/to be completed between May 2019-Summer 2022 from an accredited program in any field **or**
- An Associate’s degree + two years relevant work experience (as defined by operational, mechanical, and/or leadership experience) **or**
- Achieved E-4 rank in a military background **or**
- Four years relevant experience (as defined by operational, mechanical, and/or leadership experience)
- Right to work in the U.S. that is not based solely on possession of a student visa or a visa sponsored by a third-party employer
- Ability to work effectively with individuals from a diverse set of backgrounds and cultures
- Willing and able to relocate
- Ability to contribute, both as part of a team and individually
- Willingness to work 1st, 2nd, and 3rd shifts and weekends should the occasional need arise

Operations Management Associate 2022-Protein/Food Manufacturing (Multiple U.S. Locations) at Cargill

**Graduate Studies**

**National Needs Fellowship Opportunity for PhD Graduate Student in Interdisciplinary Nutrition at Ohio State University**

I am seeking a PhD student for a fully funded USDA National Needs Fellowship, to study Metabolomics Across the Food System focusing on human nutrition. The successful candidate could begin as early as summer 2022. Qualified applicants are either US citizens or from US territories. I attach a short powerpoint with a brief overview of our research focus, with my contact information. Anyone interested in this position should email me directly and send a CV.
Could you please share with within your networks/departments/divisions, as appropriate?

Thank you,

Rachel

Rachel Kopec, Ph.D.
Assistant Professor of Human Nutrition

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