February 24, 2019

Contents

Career Preparation 2

- BE Club – Dr. Mitchell and Dr. Tobe - Risk and Personal Finance – Feb. 26, 6:30 pm, 119 Farrall 2
- Clean and Lean: People, Planet and Prosperity - Consumers Energy CEO Patt Poppe Presents to MSU - Tuesday, Feb. 26, 10 am, Kellogg Center Auditorium, Registration required 2
- ESPP Research Colloquia Series 2019 presents - FOOD FOR THOUGHT: Examining the Food Waste Phenomenon - Feb. 28, 10 am, 273 Giltner 3

Recent Handshake Opportunities 3

- Vertex Pharmaceuticals 3
- Vertex Pharmaceuticals 3
- Vertex Pharmaceuticals 3
- Keurig Dr Pepper 4
- Dow 4
- Keurig Dr Pepper 4
- John Deere 4
- Zoetis 4
- Engineering Systems Inc. (ESI) 4
- John Bean Technologies Corporation 4
- Ford Motor Company 5
- Bristol-Myers Squibb 5
- Schreiber Foods 5
- Profile Food Ingredients 5
- Stryker 5
- Smithfield 5
- Clarke Solutions 5
- Environmental Resources Management (ERM) 5
- Orchid Orthopedic Solutions 6
- Epic 6
- Qiagen 6
- Cardno 6
- Great Lakes Water Authority 6
- Local Internships & Student Jobs in Handshake (379) 6

The Center News 6
Opportunities not on Handshake

- **Department of Energy Alaskan Summer Internship Program - Applications due April 1**

Scholarships

- **ASABE and ASABE Foundation Scholarship applications due March 15, 2019**
- **MSUFCU Intern Award Application Period Now Open**

Research

- **EnSURE 2019 program is now open**
- **REU Site: An Interdisciplinary Research Experience for Undergraduates in Food Safety, Food Engineering, and Nutrition May 28, 2019 to August 2, 2019 Illinois Institute of Technology, Chicago, IL and Institute for Food Safety and Health, Bedford Park, IL**
- **Pigs, Poultry, the Planet and Data-Driven Problem-Solving (nicknamed “P4”), NC State - Application Due March 1**
- **Undergraduate Summer Research Program in Digital Agriculture - Purdue University - Application Due March 1**

**Career Preparation**

**BE Club – Dr. Mitchell and Dr. Tobe - Risk and Personal Finance – Feb. 26, 6:30 pm, 119 Farrall**

*What:* BE Club will be having Dr. Mitchell and Dr. Tobe come in to talk about risk and personal finance! It will be super informative and useful for future adulting!

*When:* Tuesday, February 26, 6:30-7:30 pm

*Where:* Room 119 Farrall Hall

**Clean and Lean: People, Planet and Prosperity - Consumers Energy CEO Patti Poppe Presents to MSU - Tuesday, Feb. 26, 10 am, Kellogg Center Auditorium, Registration required**

https://consumers-energy-msu-presentation.eventbrite.com

MSU Infrastructure Planning and Facilities is pleased to welcome the CEO of Consumers Energy, Patti Poppe, as she presents "Clean and Lean: People, Planet and Prosperity."

Patti is one of only two female CEOs of Fortune 500 companies based in Michigan. Come hear her speak about:

- Her experience as an engineer who has advanced through the ranks of the auto industry and utility industry to become only one of 32 female CEOs of Fortune 500 companies in the United States.
- How the utility industry is evolving toward a clean and lean presence in society.
- The value of diversity in the workplace.
- The innovative technologies being employed by Consumers Energy to be an industry leader in the environmental stewardship space.
- Internship and career opportunities with Consumers Energy.
Intended audience: Students majoring in engineering, business, HR or sustainability-related fields; and any interested faculty and staff.

This event is free but registration is required. Free parking will also be available in the Kellogg Center ramp; please be sustainable and ride with others attending or consider walking or biking! Light refreshments will be served at 10 a.m. and the presentation starts at 10:30 a.m. There will be Q&A as well.

https://consumers-energy-msu-presentation.eventbrite.com

**ESPP Research Colloquia Series 2019 presents - FOOD FOR THOUGHT: Examining the Food Waste Phenomenon - Feb. 28, 10 am, 273 Giltner**

A Panel Discussion with:

- Sheril Kirshenbaum - Host for “Our Table” at Food@MSU, and coordinator of the MSU Food Literacy and Engagement Poll.
- Amanda Kreuze - PhD student in Geography, Environment and Spatial Sciences.
- Phil Chase - Assistant Director of the Michigan Department of Education’s Office of Health and Nutrition Services.
- Sriram Narayanan - Associate Professor, Department of Supply Chain Management.

Moderated and organized by Judith Namanya, ESPP and Geography, Environment and Spatial Sciences
10 a.m. - 12 p.m.
Thursday February 28, 2019
ESPP Classroom
273 Giltner Hall
Free and open to the public. Light refreshments will be provided.

**Recent Handshake Opportunities**

**Vertex Pharmaceuticals**

**Job:** Co-Op, Biochemical and Biophysical Research  
**Employer:** Vertex Pharmaceuticals  
**Apply before:** Monday, May 13, 2019 8:25 am EDT

**Vertex Pharmaceuticals**

**Job:** Intern, Pharm Ops Project Coordinator  
**Employer:** Vertex Pharmaceuticals  
**Apply before:** Wednesday, July 17, 2019 7:25 pm EDT

**Vertex Pharmaceuticals**

**Job:** Intern, Medical Writing  
**Employer:** Vertex Pharmaceuticals  
**Apply before:** Friday, May 31, 2019 9:05 am EDT
Keurig Dr Pepper

Job: Corporate Sustainability Graduate Intern  
Employer: Keurig Dr Pepper  
Apply before: Friday, March 22, 2019 10:25 am EDT

Dow

Job: Data Scientist - Full Time - R&D Information Research  
Employer: Dow  
Apply before: Saturday, October 12, 2019 1:00 am EDT

Keurig Dr Pepper

Job: Knowledge Management Intern  
Employer: Keurig Dr Pepper  
Apply before: Friday, March 15, 2019 8:20 am EDT

John Deere

Job: Safety Summer Intern 2019b  
Employer: John Deere  
Apply before: Monday, March 11, 2019 4:55 am EDT

Zoetis

Job: Bioanalytical Chemistry Intern  
Employer: Zoetis  
Apply before: Sunday, March 31, 2019 12:00 am EDT

Engineering Systems Inc. (ESI)

Job: Sr. Consultant - Safety & Risk Assessment  
Employer: Engineering Systems Inc. (ESI)  
Apply before: Friday, March 8, 2019 11:00 pm EST

John Bean Technologies Corporation

Job: Applications Engineer, Automated Systems  
Employer: John Bean Technologies Corporation  
Apply before: Thursday, February 28, 2019 7:00 pm EST
Ford Motor Company
Job: Research Engineer - Human Factors
Employer: Ford Motor Company
Apply before: Thursday, February 28, 2019 7:45 pm EST

Bristol-Myers Squibb
Job: Drug Safety Evaluation Intern - Summer 2019
Employer: Bristol-Myers Squibb
Apply before: Friday, March 1, 2019 11:55 pm EST

Schreiber Foods
Job: Maintenance Team Advisor
Employer: Schreiber Foods
Apply before: Tuesday, April 30, 2019 2:00 am EDT

Profile Food Ingredients
Job: R&D Summer Internship
Employer: Profile Food Ingredients
Apply before: Tuesday, April 2, 2019 5:00 pm EDT

Stryker
Job: Corporate Compliance Intern
Employer: Stryker
Apply before: Friday, March 15, 2019 11:55 pm EDT

Smithfield
Job: Operations Intern - Summer 2019
Employer: Smithfield
Apply before: Friday, March 29, 2019 11:55 pm EDT

Clarke Solutions
Job: Pharmaceutical Validation Engineer
Employer: Clarke Solutions
Apply before: Friday, March 15, 2019 3:10 pm EDT

Environmental Resources Management (ERM)
Chicago, Illinois, USA
Local Internships & Student Jobs in Handshake (379)
Attached “Local Internships & Jobs 2-20-19.xlsx” is a list of 187 current internship opportunities (plus 192-part time jobs) that are either on MSU’s campus (or with an MSU department away from campus) or in the Lansing area. All 379 internships and part time jobs are posted in your Handshake account at the CareerNetwork.msu.edu website.

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 the free online Handshake service.

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’s how to quickly locate a specific job posting in Handshake:
Log in to your student account in Handshake at msu.joinHandshake.com
Copy and paste a Job ID number from the attached spreadsheet into the search box
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

The Center News

Good Afternoon Engineering Faculty, Staff and Friends:

There are currently 3,800+ Intern/Co-Op and 7,000+ Full-Time positions posted on Handshake, our online career management tool, that are available to engineering students!
Attached <The Center Jobs & Event Report (6).xlsx> is a list of 450+ engineering co-op/internship opportunities (plus 950+ full-time jobs) that are set to expire before March 2nd.

We encourage you to share relevant information with your students and we hope this report makes that easier!

The Center Spartan Engineering | Michigan State University
P: 517.355-5163 | motschen@egr.msu.edu

Opportunities not on Handshake

Department of Energy Alaskan Summer Internship Program - Applications due April 1

Organization
Department of Energy (DOE)

Reference Code
DOE-EERE-RPP-AMO-2019-1100

How to Apply
A complete application consists of:

- An application
- Transcript(s) - For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. Selected candidate may be required to provide proof of completion of the degree before the appointment can start.
- A current resume/CV

All documents must be in English or include an official English translation. If you have questions, please send an email to DOE-RPP@orise.orau.gov. Please list the reference code for this opportunity in the subject line of your email.

Application Deadline
4/1/2019 5:00:00 PM Eastern Time Zone

Description
To boost Alaska’s contribution in technology and innovation advancements in manufacturing, the U.S. Department of Energy Advanced Manufacturing Office (AMO) has launched the DOE Alaskan Summer Internship Program.

This program will provide opportunities for students and recent graduates with strong ties to Alaska to collaborate with researchers at the following national laboratories: Idaho National Laboratory, AMES National Laboratory and Pacific Northwest National Laboratory. Successful applicants will be paired with a mentor from one of these laboratories to participate in a project of interest to the laboratory and AMO.

Applications will be reviewed by mentors at the hosting national laboratories. Laboratories will select candidates based on the qualifications of the applicants and the needs of the laboratory. Selections made by the hosting laboratories and the project assignments will be forwarded to AMO for final selection.

The Advanced Manufacturing Office (AMO) within the DOE Office of Energy Efficiency and Renewable Energy (EERE) is dedicated to improving energy and material efficiency, productivity,
and competitiveness of manufacturers across the industrial sector. AMO brings together manufacturers, not-for-profit entities, research organizations, and institutions of higher education to identify challenges; catalyze innovations; and develop cutting edge material, process, and information technologies needed for an efficient and competitive domestic manufacturing sector.

For more information on The Office of Energy Efficiency and Renewable Energy and AMO’s mission please visit https://www.energy.gov/eere/amo/advanced-manufacturing-office

Participant Benefits
Stipends start at $600 per week depending on academic status. May be eligible to receive $150 per week housing allowance. Up to $1,000 to support travel to and from the appointment site for participants who live more than fifty miles, one-way from the assigned site.

Duration
Appointments are offered for 10 weeks beginning in Summer 2019.

Nature of Appointment
The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOE, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

Qualifications
Meet one of the following conditions:

- Be enrolled as an undergraduate junior or senior, or master’s student during Sprint 2019 pursuing a degree in science, technology, engineering or mathematics (STEM) discipline or in a discipline that supports the Advanced Manufacturing Office (AMO) mission.
- Have earned an undergraduate or master’s degree in science, technology, engineering or mathematics (STEM) discipline or in a discipline that supports the Advanced Manufacturing Office (AMO) mission.
- Have strong ties to Alaska. Applicants to this program must indicate their strong ties to Alaska. This may include but is not limited to: birth in Alaska, resident of Alaska, heritage from Alaska, and/or attendance at an Alaskan university or other institution of higher learning. Applicants may also demonstrate their strong ties to Alaska in the application essay questions related to career and professional goals, and experience.

Preferred skills:
- Strong computer, computational and analytical skills
- Problem solving and communication skills.
- Knowledge in domains related to the mission of AMO.

Scholarships

ASABE and ASABE Foundation Scholarship applications due March 15, 2019

ASABE Foundation Engineering Scholarship - $1,500 given annually

William J. Adams, Jr. and Marijane E. Adams Scholarship - $1,500 given annually

MSUFCU Intern Award Application Period Now Open

Internship Opportunity Award Overview
Through the generosity of the Michigan State University Federal Credit Union (MSUFCU) and individual donors, the MSU Career Services Network is able to grant stipend awards for undergraduate students participating in unpaid internships located in the United States during the Summer 2019 semester.

The MSUFCU Internship Opportunity Award program was established to encourage students who have demonstrated the capacity to accomplish educational and professional goals, the motivation to achieve these goals and the initiative to seek experiential learning opportunities to further progress toward their career.

**Recipients will be selected based on the following criteria:**

- Undergraduate MSU student in good standing;
- Preference will be given to students graduating in Fall 2019 or later;
- Accepted to or actively pursuing a high quality, unpaid, career-related internship focusing on the following areas: non-profit organizations, government, media, the arts, public relations and advertising;
- Demonstrated financial need (as determined by student essay and the MSU Office of Financial Aid);
- Open to U.S. based internships ONLY, preference will be given to applicants interning at non-profits located in the Lansing area, non-profits in Michigan and Michigan start-up businesses in operation less than two years;
- Program is not open to students interning with an MSU department, who are interning internationally, who are past Award recipients, or graduate level students.
- Late applications will not be accepted.

**Internship Awards – Summer 2019**

Awards of up to $1000 each are available. The number of awards will be given based on available program funds and demonstrated student interest and need.

Recipients will be required to express acceptance and appreciation in writing within three (3) weeks of notification of the award, participate in a pre-internship Career Services workshop and post-internship donor event, and help with other program-related activities (details shared after award notifications.)

**Application Checklist**

To be considered for this award, all applicants need to submit an MSUFCU Internship Award Application via Desire 2 Learn, a 500-word personal essay (prompt included below) and a current resume via their Desire 2 Learn account through the MSUFCU Intern Award Course.

Write a statement of up to 500 words that addresses the following information:

- Your academic and career goals
- How this internship fits into your strategy for achieving those goals (If you have not yet secured an internship, describe your “first choice” internship you are pursuing.)
- What you will be doing and learning in this internship
- Your passion for the internship
- Any financial considerations that are affecting your ability to pursue this internship

**Deadline to Apply:** 11:59 pm, March 20, 2019

**Research**

**EnSURE 2019 program is now open**

https://www.egr.msu.edu/graduate/ensure

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 2019, the EnSURE program will take place on the MSU campus from **May 20 through July 26, 2019.**
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
- Biosystems & Agricultural Engineering
- Chemical Engineering & Materials Science
- Civil & Environmental Engineering
- Computational Mathematics, Science & Engineering
- Computer Science & Engineering
- Electrical & Computer Engineering
- Mechanical 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 of 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 2019 (i.e., not graduating before December 2019)
- minimum cumulative GPA of 3.20 (on a 4.0 scale)
- able to commit to full-time employment on the MSU campus during the 10-week summer program (May 20 to July 26, 2019)
- not taking classes during Summer 2019 (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, 2019

**Compensation and Housing**

Students participating in the summer research experience are paid $12.50 per hour and typically work 40 hours per week for 10 weeks (up to $5,000 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 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 EnSURE program will be filled by April 1. Please note that priority is given to students who have not previously completed EnSURE.

**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 a brief statement about why they are interested in participating in EnSURE - you should use this as an opportunity to expand briefly
on the skills and experiences you have to contribute, and/or what you hope to learn from participating in this summer program. CLICK HERE to submit your application for EnSURE 2019!

**Other Research Opportunities**
We typically receive far more applications from outstanding students than we are able to 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. MSU students can also identify a variety of on- and off-campus positions on MySpartanCareer.com.

**REU Site: An Interdisciplinary Research Experience for Undergraduates in Food Safety, Food Engineering, and Nutrition May 28, 2019 to August 2, 2019 Illinois Institute of Technology, Chicago, IL and Institute for Food Safety and Health, Bedford Park, IL - Application Due March 15**

Are you an undergraduate student interested in exploring myriad opportunities in food safety, food engineering and nutrition? Food science is a STEM area which produces far fewer graduates than the available job opportunities. Would you like to undergo a rigorous mentoring and professional development training along with a paid research internship to fine-tune your skill sets required to help you to become successful scientists, engineers, and entrepreneurs? You will be trained by mentors from the Illinois Institute of Technology and Food and Drug Administration for a 10-week period. The selected students will receive a stipend of $500/week along with support for travel, accommodation, and meal plan via funding from the National Science Foundation (Award # 1757989).

The goals of the REU program are

1) to provide hands on research experiences to undergraduate students in food safety, food engineering and nutrition to provide exposure to the field
2) to systematically train the students in transforming basic research ideas into practical applications aimed at solving real world problems for improving the safety and nutrition of our food supply through interactive seminars and discussions
3) to systematically mentor the undergraduate students to hone their research and professional skills through mentoring workshops, student presentations/discussions, interaction with graduate students, and K-12 outreach
4) to expose the students to broader fields of food science to enhance their knowledge in this field (with special emphasis on food safety, food engineering, and nutrition) through seminars and tours, and
5) to train the students on research and professional ethics.

Projects (major focus of the project is given within the brackets)
1) Energy-efficient design of sterilization of foods using pressure assisted thermal sterilization using COMSOL (modeling & simulation)
2) Low moisture food safety of legacy technologies (microbiology)
3) Shedding light on food safety: Application of a novel pulsed light treatment for inactivation of pathogens (engineering & microbiology)
4) Physiological chemistry of plant bioactives in humans (nutrition)
5) Application of cold plasma for enhancing safety of sprout seeds (engineering & microbiology)
6) Understanding transport processes in food processing using COMSOL (modeling & simulation)
7) Affordable nutrition through kinetic hydroponics (engineering design & microbiology)
8) Repurposing food ingredients for controlling biofilms of food-borne pathogens (engineering & microbiology)

Requirements

- Be a U.S. Citizen or green card holder currently enrolled in an UNDERGRADUATE program in a science or engineering discipline within the United States
- Must be available in Chicago for the entire duration of the REU (May 28, 2019 to August 2, 2019)
- GPA ≥ 3.00 (with proper justification, a GPA of 2.75 may be considered)

Application procedure

Send the following documents to Prof. Kathiravan Krishnamurthy (kkrishn2@iit.edu) by 5:00 PM CST on Friday, March 15, 2019 (late applications will be considered if there are vacancies).

- Completed REU application form (access the Google form at https://tinyurl.com/iitnsfreu)
- Transcript (unofficial transcript is acceptable)
- Resume
- An essay detailing i) why are you interested in this REU program, ii) what are your goals in participating in this training program, and iii) what are your career goals and how will this training program help you in achieving your career goals
- Names and emails of two people who will be writing recommendation letters for you (at least one from a faculty member; your recommenders should directly send the recommendation letter to kkrishn2@iit.edu by March 15, 2019)

**Pigs, Poultry, the Planet and Data-Driven Problem-Solving** (nicknamed “P4”), NC State - Application Due March 1

http://p4.rbind.io/

**Pigs, Poultry, the Planet and Data-Driven Problem-Solving** (nicknamed “P4”) is a Research and Extension Experience for Undergraduates summer fellowship program. The P4 program is designed to develop the next generation of data-savvy food animal production professionals, extension associates, and researchers. P4 fellows learn how to apply data-driven analytics and problem-solving to address issues surrounding global intensification of poultry and swine production. The program takes place at North Carolina State University in Raleigh, NC, in partnership with North Carolina Agricultural and Technical State University.

P4 fellows will:
• **Gain skills** in data science, data-driven problem solving, holistic evaluation of food animal production systems, global thinking, and technical communications

• Work on a **data-driven research project** under the supervision of two faculty mentors

• Visit poultry and swine production facilities in North Carolina to gain **hands-on experience**

• **Travel to China for 2 weeks** (expenses paid) to participate in knowledge and cultural exchange with scholars at China Agricultural University and Zhejiang University, and learn about international food animal production systems

• Network with **industry professionals** in the food animal production and data analytics industries

• Attend a **national conference**

• Receive a **stipend**, on-campus housing, and meal allowance

**Details**

**Eligibility:** Enrolled undergraduate students of sophomore or junior standing are eligible to apply. Only U.S. citizens are eligible to receive funding, but self-funded non-U.S. citizens are welcome to apply. Interests in food animal production and data science are required; prior experience is not. Some background in statistics (e.g. completion of an introductory statistics course) is preferred, but not required. Students who do not have current passports will be expected to apply for one immediately after receiving notice of acceptance into the program.

**Schedule:** The program spans 11 weeks and begins the week after Memorial Day. In 2019, the program will occur from May 28 - August 11; the trip to China takes place during the final two weeks of the program.

**Compensation:** Fellows will receive a $5,280 stipend, $100/week meal allowance ($1,100 total), on-campus housing, travel to China, and financial support to attend a national conference. Financial assistance to support travel to/from home institutions to NC State is available.

**Housing:** Fellows will stay in the Wolf Village Apartments on NC State’s campus in Raleigh, NC. Each fellow will have his or her own room and shared bathrooms. Fellows will have access to on-campus facilities and resources including the Wolfline Bus system.

**Apply**

**Applications are due by 11:59 PM on March 1, 2019.** Complete applications include all of the following materials:

- Application form - https://docs.google.com/forms/d/e/1FAIpQLSe8dXbm330yirHuAjyUxtRqmJpsyPO_S_NdFhTDRebLh_O0HQ/viewform
- Statement of interest (submitted via the application form). The statement of interest should summarize your motivation for applying to the program and career goals (short- and long-term). Limited to 1 page with 12-pt font and 1” margins.
- Resume (submitted via the application form). Limited to 1 page with 12-pt font and 1” margins.
- Contact information for a reference (submitted via the application form). The reference should be a faculty member or professional who knows you through academic and/or professional interactions and can speak to your potential and career ambitions.

*Applications that remain incomplete by the deadline may not be reviewed.*
Overview of the Program:

This summer *experiential research* program, hosted at Purdue University, is designed to equip 5 cohorts with a total of 47 participants with data science skills that complement their agricultural discipline knowledge. We will enable them to contribute to the rapidly developing research and practice of digital agriculture in a student-centered, active-learning environment with a combined course/research experience.

*The Program Objectives and Student Learning Goals are:*

- understand application program interfaces (APIs) well enough to collect data and wrangle data into informed decisions
- perform proper statistical analysis and be able to communicate process and results
- understand the industry opportunities in agri-business data science

The project will address a variety of the AFRI farm bill priority areas with focus on Cyberinformatics and Tools for Food and Agricultural Data Analysis and Data-Driven Applications (FACT). With the intellectual focus on digital agriculture and data analytics, we will introduce algorithmic thinking in basic elements, and will empower those students to integrate different concepts into their own research area and to communicate that effectively.

The culmination of the summer research experience will be a mini-symposium with student presentations (live and virtual) to internal and external stakeholders. This presentation/communication experience will give them firsthand experience documenting their own learning and methods in a way that improves retention and transfer of the knowledge (a metacognition exercise).

This experience involves strong mentoring by faculty in assorted disciplines as well as coordinated activities with other research programs to bring about mutual benefits in culture and intellectual maturity.

In addition to experiences directly led by the faculty mentors, this program will involve activities organized by the Purdue Office for Undergraduate Research (OUR):

- Facilitation of housing
- Social activities and research-related seminars
- Involvement in the annual campus-wide research poster symposium as well as programs offered by the College of Agriculture including:
  - Science communication workshops
  - Social and networking activities including connection to agricultural administrators
• Participation in agricultural research center tours