



Michigan State University Summer Research Opportunities Program (SROP) Summer 2023 Application



SROP is a gateway to graduate education at Michigan State University (MSU). The goal of the program at MSU is to increase the number of domestic under-represented undergraduate students who pursue graduate study and careers in teaching and research at colleges and universities. MSU SROP helps prepare undergraduates for graduate study through intensive research experiences with faculty mentors and other professional development activities.

MSU SROP helps undergraduate students gain a competitive advantage as a graduate applicant by:

- Intense research activities that broaden technical and presentation skills
- Opportunities to present research results at a program symposium and in local research meetings
- Seminars that introduce students to a range of research fields across disciplinary lines
- Workshops on graduate admission procedures and professional development
- Informal social gatherings that provide a forum for student and faculty exchange of ideas and perspectives

All participants must be available to work 40 hours each week during the program. Due to the intense research schedule, MSU SROP participants are discouraged to work an additional job or take additional courses during the summer program.

Program Eligibility:

- Be a U.S. citizen or a permanent resident
- Be enrolled in a degree-granting program at a college/university in the U.S., Puerto Rico, U.S. Virgin Islands, or other U.S. territory
- Have a cumulative GPA of 3.0 or higher (on a 4-point scale)
- Have completed at least two (2) semesters of undergraduate education
- Have at least one semester of undergraduate education remaining after completing the program
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
<https://bit.ly/MSUGradprograms>

Application Requirements:

- Resume (1 page)
- College/University Transcript(s)
- Two (2) faculty letters of recommendation
- Statement of Research Interest (single-spaced, 400-600 words): Research motivations, Academic exposure, Work experience
- Personal Statement (single-spaced, 400-600 words): Current career goals, Reasons in pursuing graduate study at MSU, How participation in MSU SROP will help achieve career goals, How background has influenced career goals

Program Details and Benefits:

- Program dates are 5/15-7/28, 2023
- **Up to \$4500** stipend for the program
- Opportunity to participate in MSU SROP Short Courses (May 15-26, 2023)
- Opportunities to present research at the AGEP Student Success Conference hosted by MSU

Submission Instructions and Due Date: Completed MSU SROP application materials *must be RECEIVED* by **February 10, 2023**. Letters of recommendations can be mailed or emailed separately.

Please submit application materials to:

MSU SROP Program • The Graduate School • 466 W. Circle Drive • Chittenden Hall Room 130
Michigan State University • East Lansing, Michigan 48824

Or email at msusrop@grd.msu.edu



Michigan State University

Summer Research Opportunities Program (SROP)

Short Course Descriptions



Packaging Short Course Overview

MSU SROP Packaging Short Course runs over 5 days, with an investment of 8 hours per day (May 15-19, 2023). With educational content, activities, and virtual software, participants will receive with a solid foundation in packaging basics. Topics such as marketing, distribution, environmental science, manufacturing and consumer behavior all have unique influences on packaging design. Participants will also attend presentations from national experts in the field of packaging and get on advice on the graduate school application process. Student team groups will develop a case-study analysis as a part of the course and prepare a written and oral report. The final research report and group presentations will be due on the final day of the boot camp. Participants will also receive a certificate of completion as a part of the course.

This course will be useful for students interested in marketing, applied psychology, environmental science, product design, supply chain management, mechanical, industrial, or applied engineering.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
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Criminal Justice Short Course Overview

The MSU SROP Criminal Justice Short Course runs over 5 days, with an investment of ~6-7 hours per day (May 15-19, 2023). With educational content and group learning activities, participants will receive with a solid foundation in drug and alcohol use and criminal justice research methods. Featured topics will include the following: criminological theory, current drug and alcohol issues, data collection, statistical analysis, and research ethics. Participants will also receive a primer on graduate education within the MSU School of Criminal Justice. Student team groups will develop a research project as a part of the course and prepare a written and oral report. The final research report and group presentations will be due on the final day of the course.

This course will be useful for students interested in criminology, youth development, scientific research, and public health.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least four (4) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
<https://bit.ly/MSUGradprograms>



Michigan State University Summer Research Opportunities Program (SROP) Short Course Descriptions



Public Policy Short Course Overview

MSU SROP online Public Policy Short Course runs over 5 days, with an investment of 8 hours per day (May 22-26, 2023). With educational content, activities, and virtual software, participants will receive with a solid foundation in public policy development, with a focus on educational policy. Topics such as political science, educational reform, youth development and urban policy, all have unique influences how to be a proficient educational policy influencer. Participants will also attend presentations from national experts in the field of educational policy and get on advice on the graduate school application process. Student team groups will develop a case-study analysis as a part of the course and prepare a written and oral report. The final research report and group presentations will be due on the final day of the boot camp. Participants will also receive a certificate of completion as a part of the course.

This course will be useful for students interested in education policy, youth development, political science and policy development.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
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Health Disparities Short Course Overview

MSU SROP Health Disparities Short Course runs over 5 days, with an investment of 8 hours per day (May 22-26, 2023). The primary focus will be on disparities related to race/ethnicity, but the course will also include disparities related to gender, socioeconomic status, immigration, and rurality. Participants will examine health conditions across the life course. Likely topics include preterm birth, cancer, cardiovascular disease, dementia/Alzheimer's disease, depression, suicide, substance use, and COVID-19. In addition to disparities in morbidity and mortality, the course will also consider health care disparities such as differences in access to treatments and preventive care. Current theoretical and empirical work from the broad field of social epidemiology will be included, including the study of racism. The course will also cover policy and programmatic issues related to health disparities.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
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Michigan State University Summer Research Opportunities Program (SROP) Short Course Descriptions



Physics Immersion Overview

This will be a two-week program (May 15-26, 2023) in which students will be immersed into the cutting-edge areas of physics and experimentation. Participants will also receive training in Python computer language as a part of the experience.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of physics undergraduate coursework
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
<https://bit.ly/MSUGradprograms>

Bioinformatics Short Course Overview

MSU SROP online Bioinformatics Short Course runs over 5 days, with an investment of 8 hours per day (May 15-19, 2023). With educational content, activities, and virtual software, participants will receive a solid foundation in how bioinformatics can inform our understanding of disease, personalized medicine, and multiple species from animals to plants. Topics such as genomics, transcriptomics, proteomics, toxicology and structural biology contribute to a proficient in the field of bioinformatics. Participants will also attend presentations from national experts in the field of bioinformatics and get advice on the graduate school application process. Student team groups will develop a case-study analysis as a part of the course and prepare a written and oral report. The final research report and group presentations will be due on the final day of the boot camp. Participants will also receive a certificate of completion as a part of the course.

This course will be useful for students interested in biomedical engineering, cellular biology, science communication and clinical trial development.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
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Bioinformatics Short Course Overview

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This course will be useful for students interested in biomedical engineering, cellular biology, science communication and clinical trial development.

Course Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
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Michigan State University Summer Research Opportunities Program (SROP) Short Course Descriptions



Human Resources Immersion Overview

This will be a two-week program (May 15-26, 2023) in which students will be immersed into the fields of human resources and labor relations. Week One will be a practitioner-oriented and it will include an introduction to the fields of human resources and labor relations. With educational content, activities, and virtual software, participants will receive a solid foundation in human resource management and labor relations issues. The course will include topics such as employee recruiting and selection, workplace diversity and inclusion, labor relations, and employee engagement, which are all critical to being a proficient human resources manager or labor relations professional. Participants will attend presentations from national experts in the field of human resources and labor relations and get advice on the graduate school application process. Participants will also receive a career mentor during this week, in which they will practice resume writing, interviewing, and other career skills. At the end of the week, students will be asked to deliver a report and presentation on a human resources or labor relations topic of their choosing, and they will receive feedback on their presentation skills.

Week Two of this immersion program will involve an immersive research experience conducted by Angela Hall, Associate Professor, School of Human Resources and Labor Relations. During this week, students will learn the basics of organizational scholarly research, including data analysis. Students will be placed into teams in which they will work on a research project involving the differential work experiences of minority workers and job seekers. At the end of week two, students will present parts of a research paper and receive feedback on their presentation.

Participants will also receive a certificate of completion as a part of the course.

This course will be useful for students interested in labor relations, applied psychology, and business management.

Program Eligibility:

- Be a U.S. citizen or a permanent resident
- Have completed at least two (2) semesters of undergraduate education
- **Have an interest in pursuing a graduate degree in one of MSU graduate programs:**
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Michigan State University Summer Research Opportunities Program Program Application



STUDENT INFORMATION:

Student Name: _____ Date of Birth: _____

Gender: _____ Race/Ethnicity: _____

Permanent Address: _____ City, State, Zip: _____

Current Address: _____ City, State, Zip: _____

Home Number: _____ Cell Phone Number: _____

Email Address: _____

U.S. Citizen: Yes No (OR) Permanent Resident: Yes Other: _____

Are you a first-generation student?: Yes No

CURRENT ACADEMIC INFORMATION:

College/University: _____ City, State: _____

Department: _____ Major: _____

Cumulative GPA: _____ Cumulative Credit Hours: _____

Year in School: _____ Expected Graduation Date: _____

OTHER INFORMATION:

How did you hear about our program?: _____

Have you previously participated in the Big Ten Academic Alliance Summer Research Opportunities Program (SROP)? Yes No

If yes, what campus: _____

Do you participate in undergraduate support programs?

MARC McNair Howard Hughes Meyerhoff Scholars LSAMP RISE Other: _____

Post-baccalaureate areas you are interested in:

Graduate Programs: Masters Doctoral Medical-Dual Degree (MD-Ph.D or DO-Ph.D.) Discipline: _____

Professional Schools: Business Law Medical Dental Pharmacy

MSU SROP Program • The Graduate School • 466 W. Circle Drive • Chittenden Hall Room 130
Michigan State University • East Lansing, Michigan 48824
Phone: (517) 432-3268 • msusrop@grd.msu.edu

Faculty Recommendations

FACULTY RECOMMENDATION 1: (Letter of recommendations can be sent separately)

Faculty Name: _____ Department: _____
College/University: _____ Time Acquainted with Applicant: _____
Address: _____ City, State, Zip: _____
Phone Number: _____ Email: _____

FACULTY RECOMMENDATION 2: (Letter of recommendations can be sent separately)

Faculty Name: _____ Department: _____
College/University: _____ Time Acquainted with Applicant: _____
Address: _____ City, State, Zip: _____
Phone Number: _____ Email: _____

STATEMENT OF COMMITMENT:

Events and activities associated with MSU SROP can occur every day of the week, Sunday through Saturday, potentially in the mornings, afternoons, and evenings. Additionally, research responsibilities sometimes require work at any hour of the day and any day of the week. If admitted to MSU SROP, will you be able to participate fully in ALL program activities? Yes No

The program dates for 2023 MSU SROP are 5/15-7/28/2023. Are you able to participate in the entire program? Yes No

If no, state the reason: _____

Do you wish to be considered for any of the following MSU SROP Short Courses? Click all that apply.

- | | |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <input type="checkbox"/> Human Relations Immersion May 15-26, 2023 | <input type="checkbox"/> Bioinformatics Course May 15-19, 2023 |
| <input type="checkbox"/> Physics Immersion May 15-26, 2023 | <input type="checkbox"/> Packaging Course May 15-19, 2023 |
| <input type="checkbox"/> Criminal Justice Course May 15-19, 2023 | <input type="checkbox"/> Health Disparities Course May 22-26, 2023 |
| <input type="checkbox"/> Social Justice Research Course May 15-19, 2023 | <input type="checkbox"/> Public Policy Course May 22-26, 2023 |
| <input type="checkbox"/> Statistics Boot Camp May 22-26, 2023 {Default for most MSU SROP students} | |

STUDENT CERTIFICATION:

I certify that all information provided is accurate and correct and that this application is complete.

(Print) Student Name

(Signature) Student Name

Date