Hello, Fall Semester!

To our students who are returning, welcome back. We hope you had a great summer filled with adventure, relaxation, and continued learning. For those of you new to MTSU, we are excited to get to know you during the coming months! If you are ready to get involved in undergrad research but are unsure where to start, take a peek at our Student Research Guide on page 17.

This edition of our newsletter is full of lots of great info including Fall URECA options and deadlines (including the return of our in-person workshop!), information about how to join our awesome student organization known as SOAR, student presentation and conference highlights from the summer, new URECA policies, and graduation distinction requirements.

Be sure to check out the new additions to our staff, our 2022-23 SOAR officers and ambassadors, and several "save the dates" for upcoming events and conferences including the Fall Open House, the National Conference on Undergraduate Research, Scholars Week, and the World Congress on Undergraduate Research.

We have also added a "featured faculty mentor" page to showcase our amazing URECA mentors.

Never hesitate to let us know what you would like to see featured in future editions of our newsletter. We wish you a wonderful fall semester!
THE URC TEAM

YOU, our students and faculty, are our #1 priority. We are here to help however possible, whether it is getting you involved in undergraduate research, helping you find a faculty mentor, thinking through a research or creative activity project, hosting a workshop on a topic of need, or facilitating events. Meet our team!

Dr. Jamie Burriss
Program Manager, Office of Research and Sponsored Programs

Dr. Burriss oversees the URC, the Student Organization for the Advancement of Research (SOAR), our newly created SOAR Ambassador program, the URECA grant program, communications, Scholars Week, Posters at the Capitol, and all other activities related to the URC.

Prior to returning to MTSU, Dr. Burriss served as the Curriculum Administrator for the SELECT MD Program at the University of South Florida while pursuing her doctorate. After USF, she accepted a position at Vanderbilt University as the Assessment Analyst for the College of Medicine. But, her heart has always been TRUE BLUE and she is happy to once again serve her undergraduate alma mater.

Katie Medrano
Coordinator, Office of Research and Sponsored Programs

Katie is delighted to be the new Coordinator for ORSP! She was born and raised in Murfreesboro, TN. In 2019, Katie completed her bachelor’s degree in Organizational Communication with a minor in English here at MTSU. She plans to pursue her master’s degree in the near future. Katie is an artsy type with a love for painting, reading, and nature. She enjoys volunteering for local nonprofits and has found so much joy in using her life to help others. Katie is excited to start this new journey and to get to know all about the world of research and sponsored programs. She strives to be a life-long learner, and what better place to do that than at MTSU?

Jocelyn Rajkowski
Major: Community and Public Health

Jocelyn was born in Bay Shore, NY. She is well on her way to earning her bachelor’s in Community and Public Health in December 2022, and her MPH in December 2023. In Jocelyn’s free time, she enjoys running, cycling, lifting weights, reading, and hanging out with her cats.

Jacob Grones
Major: Biology

Jacob is a Biology major with a concentration in biotechnology and genetics. He expects to graduate in the Spring of 2024, and plans to pursue further education in biomedical engineering. He loves to exercise, hike, camp and do just about any hobby he can get his hands on. He has two siblings: a twin sister and a 9-year-old brother.
STUDENTS MAY APPLY FOR THE FOLLOWING LEVELS:

- **Assistant - beginners**, one semester project, $500 stipend
- **Silver Scholar - experienced student researcher**, one semester project, $1000 stipend
- **Gold Level - experienced student researcher**, 2 semester project (fall & spring), $2,400 stipend
- **Team - All levels**

*NEW!! Need assistance finding a mentoring or figuring out which level grant is best for you? Contact our Peer Mentor Scholar, Foram Patel, at fp2n@mtmail.mtsu.edu. Foram can also help with proposal development, budget and justification, creating a timeline, and proposal review. More info about our new SOAR Ambassadors on Page 5!*
FELLOWSHIPS & UNDERGRADUATE RESEARCH EXPERIENCE & CREATIVE ACTIVITY (URECA) GRANTS WORKSHOP

JOIN US as we highlight some outstanding opportunities for the 2022-23 academic year!

The first portion of the workshop will feature several prestigious and exciting fellowship opportunities in the areas of research, language, and service. Presenter: Laura Clippard, International Fellowships and Honors College Coordinator

Then we will shift gears and focus on the URECA grant program. Awards range from $500 for beginners to $2,400 for experienced student researchers. We will cover all the details needed to apply including how to find a faculty mentor, proposal development, and budget guidelines. Presenter: Dr. Jamie Burriss, Undergraduate Research Center

AUGUST 23, 2022
12:30 PM - 1:30 PM
STUDENT UNION, ROOM 220

Check out our websites for more info:
https://www.mtsu.edu/honors/ufo
https://mtsu.edu/urc/ureca
Meet our 2022-23 SOAR Ambassadors!

**FORAM PATEL**  
PEER MENTOR SCHOLAR

**ROLES & RESPONSIBILITIES:**  
MENTOR STUDENTS INTERESTED IN GETTING INVOLVED WITH UNDERGRADUATE RESEARCH. PROVIDE GUIDANCE RELATED TO URECA GRANTS (PROPOSAL, BUDGET, TIMELINE) AND THE DISSEMINATION PROCESS.

**CASEY TOMLIN**  
SCHOLARS WEEK CHAIR

**ROLES & RESPONSIBILITIES:**  
HELP ORGANIZE EVENTS FOR SCHOLARS WEEK, PRIMARILY FOCUSED ON THE RESEARCH AND CREATIVE ACTIVITY EXPOSITION. SERVE AS STUDENT LIAISON TO MTSU SCHOLARS WEEK COMMITTEE.

**ERIKA ALLEN & MARZEA AKTER**  
URC COMMUNICATIONS & SOCIAL MEDIA

**ROLES & RESPONSIBILITIES:**  
ASSIST WITH THE URC MONTHLY NEWSLETTER, SOCIAL MEDIA TAKEOVERS, FACEBOOK & INSTAGRAM POSTS, LAB DIRECTORY, AND MARKETING FOR EVENTS AND HAPPENINGS.
BROOKE BUSBEE & LESLIE GONZALEZ SALAZAR
READY TO SOAR COORDINATORS

ROLES & RESPONSIBILITIES:
OVERSEE THE "READY (RESEARCH EXPERIENCE ACTIVITY DESIGNED FOR YOUTH) TO SOAR PROGRAM. THIS NEW PROGRAM IS AN OPPORTUNITY FOR AREA HIGH SCHOOL STUDENTS TO VISIT MTSU’S CAMPUS FOR AN IMMERSIVE RESEARCH OR CREATIVE ACTIVITY EXPERIENCE DURING SCHOLARS WEEK.

LUKE GORMSEN & SAMAN KITTANI
RESEARCH ASSISTANTS

ROLES & RESPONSIBILITIES:
ASSISTS WITH RESEARCH PROJECTS, IDENTIFICATION OF EXTERNAL FUNDING OPPORTUNITIES FOR STUDENTS, DATA ANALYSIS, AND PRESENTATION OF RESULTS.
SOAR is our awesome student organization comprised of undergraduate students who are committed to developing and sustaining an active and successful undergraduate research environment at MTSU.

**SOAR’s Mission**
To enhance student’s research capacity through increased awareness, collaboration and skill building.

**Why Join?**
- SOAR will enhance a student’s research capacity through increased awareness, collaboration and skill building by offering workshops and trainings to fulfill the needs of undergraduate researchers.
- SOAR will assist students in the preparation of poster presentations and development of abstracts to increase conference presence on a national level, encourage students to attend the National Conference on Undergraduate Research, and facilitate travel preparations.
- SOAR will provide peer mentoring to students new to undergraduate research.
FALL LUNCHEON & BUSINESS MEETING

When? Monday, August 29 | 11:30-12:30pm

Where? MT Center (lots of student parking in the Sam Ingram lot) - 2269 Middle Tennessee Boulevard

Who? ALL Majors - Biology, English, Aerospace, Computer Science, Business, Chemistry, Marketing, Recoding Industry, Psychology, Health and Human Performance - ALL Majors - all of them!! Anyone interested in being a part of a really cool student organization and is interested in advancing their involvement in undergraduate research or creative activity should join us!

Why? Free lunch. But, more importantly, we will go over events, workshops, and other ways to get involved this fall.

How? Register HERE to select your lunch choice!

MEET OUR 2022-2023 SOAR OFFICERS

Hunter Brady
President
Major: Biology

Charlotte Daigle
Vice President
Major: English

Jocelyn Rajkowski
Secretary
Major: Community & Public Health

Dalton Lewis
Treasurer
Major: Biology
**FEATURED SOAR STUDENT**

**YASEEN GINNAB**

**Major:** Biology and Psychology  
**Faculty Mentor:** Dr. Frank Bailey

**Current Research Focus:**  
Analyzing the Ability of Astragalus tennesseensis to Accumulate Selenium

**Project Description:**  
The Astragalus genus has well-known selenium hyperaccumulators, such as Astragalus bisulcatus. This plant can accumulate extremely high amounts of selenium, an essential micronutrient that can have devastating effects when consumed in high amounts. A. bisulcatus grows in the western U.S. where there are relatively high amounts of selenium in the soil, while A. tennesseensis grows in middle Tennessee with lower amounts of selenium. For my Honors Thesis project, I will grow these two plants side by side with three levels of selenium exposure to test whether A. tennesseensis has the same selenium accumulating abilities as its relatives.

**Why does this topic interest you?**  
My first research experience was helping Dr. Herlihy and Dr. Walck on observing pollinator behaviors on Astragalus bibullatus, a species endemic to Rutherford county's Cedar Glades. During this fieldwork, I became familiar with A. tennesseensis as well. I had a growing interest in the Astragalus genus when Dr. Bailey showed me papers on A. bisulcatus hyperaccumulating selenium, and I wanted to see whether the other two species could do it as well. I didn't find any papers so it seems that nobody has tested this yet. I decided it would be an interesting project for my Honors Thesis. Since A. bibullatus is federally endangered I decided to do the project on A. tennesseensis.

**Do you have any advice for future researchers?**  
Don't be afraid to approach professors with thoughts or questions. That's how you get the initial connections that can lead to research projects. I know professors can seem intimidating, especially as a freshman, but if you show genuine interest and unique thinking, you'll stand out and they'll remember you.

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Scholars Week is a week long tradition during which MTSU’s academic colleges celebrate scholarship, research, and creative activity through a variety of events and activities.

Thursday, November 3rd, from 11-1pm
SCI Building, 2nd floor, Atrium
The Open House is an informal poster session that showcases undergraduate student research and creative projects at MTSU. All students, particularly new students and transfer students, are invited to attend. Registration will open on October 3rd!

March 20-24, 2023
Scholars Week is a week long tradition during which MTSU’s academic colleges celebrate scholarship, research, and creative activity through a variety of events and activities.

April 4-6, 2023
The World Congress on Undergraduate Research will take place at the University of Warwick. Students across the world are invited to share their research, discuss global issues, and create or strengthen international research partnerships. *NOW ACCEPTING ABSTRACTS!

April 13-15, 2023
The National Conference on Undergraduate Research hosts 3,500 to 4,000 students from across the globe, presenting their research through posters, oral presentations, visual arts, and performances. It will take place at the University of Wisconsin-Eau Claire.
Department: Chemistry

Research Interests:
Bioorganic chemistry, peptoids and peptides, solid-phase synthesis, assay development, drug development

Mentored URECA Projects:
- Synthesis and evaluation of antifungal peptoid derivatives against Cryptococcus neoformans (Summer 2021)
- Synthesis and evaluation of antifungal peptoid derivatives against Cryptococcus neoformans (Fall 2020)
- Synthesis of Peptoid Coated Quantum Dots for Biomedical Applications (Summer 2020)
- Synthesis and MIC Testing of Antifungal Peptoids against Cryptococcus (Summer 2017)
- Characterizing the Therapeutic Potential of the Antifungal Peptoid AEC5 (Summer 2017)
- Synthesis and Screening of an Antimicrobial Oligomer Peptoid Combinatorial Library Against the Fungi Aspergillus, Candida, and Cryptococcus (Summer 2016)
- Synthesis and Screening of Antimicrobial Peptoid Combinatorial Libraries Against the Fungi Aspergillus, Candida, and Cryptococcus (Fall 2015)
Ori Bergman  
Biology Major  
Faculty mentor: Dr. Donny Walker

Being surrounded by passionate, prominent mycologists was exhilarating. I not only got to see the variability and applications of mycological research, but also learned what it would be like to stay involved in that community. I didn’t want it to end! ” -Ori Bergman

Conference: Mycological Society of America (MSA)  
Gainesville, FL

Ori had the opportunity to meet Dr. Meredith Blackwell, an American Mycologist who is known as one of the world’s leading experts on fungi associated with arthropods.
Clay Stalzer  
Biology Major

My MSA was so incredibly exciting and informative, it was jam-packed with ground breaking research on all topics mycology related. From restoring the environment in South America, to VOCs released by sick houses after hurricanes.

Conference: Mycological Society of America (MSA)  
Gainsville, FL

MSA was amazingly interesting! I felt like I made a large amount of connections, was exposed to a number of impactful mycologists and really got a good understanding of my future academic path for the research I contribute to. I can’t wait for next year!
Gift Cards for Research Participant Compensation

- Projects must be approved by the Institutional Review Board.
- MTSU will provide a taxable stipend to the student researcher in the amount of the gift cards purchased.
- The student researcher, in association with their faculty mentor, will be responsible for tracking their electronic gift card payments and the associated card distribution for the study.
- For accounting control purposes, the student must retain their gift card purchase receipt and provide the receipt to their faculty mentors for verification.
- Students will not be issued their final stipend payment until they have submitted gift card documentation including a purchase receipt and distribution documentation.
- Based on the additional controls that Amazon provides, Accounting Services and the Undergraduate Research Center recommend that students use Amazon to send gift cards to participants. Amazon provides a record of gift cards that have been sent and received by participants; this documentation provides support that the cards have been distributed. Please note that Accounting Services reserves the right to request this documentation as well.

Funding for Publications

Expenditures supporting publications that will not return royalties to the author or authors may be requested from URECA funds. Similar to conference travel support, funding to support publications must meet the following guidelines:

- At least one MTSU undergraduate student must be listed as an author on the supported publication.
- Students seeking funding for publication support should email their requests to the URECA Program Manager, Dr. Jamie Burriss. Please include documentation of the accepted publication.
- The student may request up to $400 to assist with the cost of publication. The $400 can be paid directly to the publisher or reimbursed to the student.
- Funding is limited to once per academic year, which is defined as the start of the fall semester through the end of the summer semester.

Support for royalty generating publications are not permitted from URECA funds.
LEVELS OF RECOGNITION

Distinction in Undergraduate Research
- Students must fulfill all requirements
- Successful completion of an Assistant level URECA project - 50 hours of research or more.
- Poster presentation or creative performance at one of the URC's signature events: Fall Open House, Scholars Week, or Summer Research Celebration.
- Active participation for at least one academic year in the Student Organization for the Advancement of Research (SOAR).
- Confirmation of support from URECA faculty mentor.
- Students receive a dark blue, light blue, and white cord

Scholar Distinction in Undergraduate Research
- Students must fulfill all requirements
- Successful completion of a Scholar level URECA project - 100 hours of research or more.
- Poster presentation or creative performance at one of the URC's signature events: Fall Open House, Scholars Week, or Summer Research Celebration.
- Active participation for at least one academic year in the Student Organization for the Advancement of Research (SOAR).
- Poster or presentation at the National Conference on Undergraduate Research or published in a peer-reviewed academic journal.
- Confirmation of support from URECA faculty mentor.
- Students receive a dark blue, light blue and white cord AND a medallion (see image to the right)
OUT NOW: THE URC LAB DIRECTORY

State of the Art MTSU Laboratories, all in one place.

The URC is proud to announce our new laboratory directory. This resource will allow students to learn about excellent MTSU labs across several disciplines. Both new and experienced student researchers can utilize this document to find research positions, set up collaborations with other labs, or to establish a specific thesis mentor.

This directory is also a resource for faculty members seeking student researchers. Each lab's accomplishments, publications, and goals are detailed within the pages of this directory.

This directory contains laboratory descriptions, the key skills necessary for each lab position, and semester openings for several labs, divided by specific college. To access the directory, click the button on the right or scan the QR code.

PDF copies of the directory are also available to print.

*Please send any additions or updates to our URC Communications & Social Media Ambassador, Marzea Akter: ma2ey@mtmail.mtsu.edu.*
Then check out our STUDENT RESEARCH GUIDE

The URC's guide for upcoming student researchers, Research Guide: How to Start your Student Research Journey, is a great resource for undergraduates seeking to enter the world of research! This guide covers when to start research, how to find a project, student experiences, helpful advice, URC resources, and SOAR resources at MTSU.

The next time you are asked how to get involved in research, direct that student to this resource!

This guide was initiated, compiled, and formatted by Dara Zwemer.

Stories were provided by SOAR students, including Cassandra Perrone, Leah Piccirillo, Javier Hernandez, Robert Conner, Charlotte Daigle, Madeline Aadnes, Maria Fernanda Clark, Kylie C. Moe, Miquellie Bonner, Merry Young, Kaitlyn Berry, Zachary Sanchez, Kap Paull, and Christopher Hall.

We hope you find it useful!