<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>UMSS19(^1) Abstract Submission Deadline</td>
<td>Mar 15, 2019</td>
</tr>
<tr>
<td>UMSS19 Accepted Abstract Announcements</td>
<td>Mar 25, 2019</td>
</tr>
<tr>
<td>2019 Summer Fellowship Proposal Submission</td>
<td>Mar 29, 2019</td>
</tr>
<tr>
<td>2019 Summer Fellowship Award Announcements</td>
<td>Apr 10, 2019(^3)</td>
</tr>
<tr>
<td>UMSS19 Poster Printing Deadline</td>
<td>Apr 3, 2019 by 4 PM (FREE)</td>
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<tr>
<td>UMSS19 Poster Printing Deadline(^2)</td>
<td>Apr 5, 2019 by 4 PM (50% off)</td>
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<tr>
<td>UMSS19 Poster Printing Deadline(^3)</td>
<td>Apr 8, 2019 by 3PM</td>
</tr>
<tr>
<td>UMSS19 Event Date</td>
<td>Apr 10, 2019</td>
</tr>
<tr>
<td>Summer Fellowship Performance Period Begins</td>
<td>May 1, 2019 - Aug 31, 2019</td>
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\(^1\) 2019 UMaine Student Symposium

\(^2\) Last chance to guarantee your poster will be printed in time for the event is Mon April 8, by 3pm. You must have submitted and approved the proof of your poster by the 3pm deadline. Anything submitted after 4pm on Fri April 5, 2019 is at the students’ expense/no cost-sharing contributions will be made by the UMSS19 Committee.

\(^3\) Award announcements will be made at the UM Student Symposium Luncheon Ceremony at the Cross Insurance Center in Bangor.
The 2019 annual University of Maine Student Symposium (UMSS19) is held every spring and is open to ALL disciplines. This event involves student presentations in the form of posters, exhibits, or oral presentations to be judged by UMaine faculty, staff and community members. The Graduate Student Government and the Center for Undergraduate Research invite all students, faculty and staff to join us at the event on April 10, 2019 at the Cross Insurance Center in Bangor. The event is open to the public.

For information on how to submit an abstract and present at the symposium please see pages 4-6.

2019 RESEARCH AND CREATIVE ACTIVITIES SUMMER FELLOWSHIP CALL FOR PROPOSALS

The Center for Undergraduate Research (CUGR) is pleased to announce the Research and Creative Activities Summer fellowship program to support undergraduate student involvement in faculty mentored research. Several $3,300 Fellowships will be awarded for the 2019 summer semester on a competitive basis; the competition is open to all UMaine undergraduate students from all majors. Each fellowship provides financial support for one student to conduct faculty mentored research. The CUGR Advisory Committee will review research and creative activities proposals for clarity of objectives, importance to the field, proposed approach, appropriateness of the budget, and indication of the project feasibility

Eligibility Criteria:

1. Any undergraduate student currently enrolled in a degree program at the University of Maine may submit a proposal in consultation with a faculty mentor. Preference will be given to students graduating in or after May 2020.

2. Applicants need to describe their research, placing it in the context of scholarly activities, while presenting in such a way that is understandable to the reviewers from outside of the applicant’s research field.

3. Award recipients must submit a report including technical and financial data by September 10, 2019 and are expected to present the product of their research at the 5th Annual UMaine Student Symposium: Research and Creative Activity (UMSS20).

FOR MORE INFORMATION, CUGR.UMAINE.EDU

UMSS19 SPECIAL SESSION REQUESTS!

Special sessions can include alternative modes of presentation compared to the traditional formats (poster, oral presentation, or exhibit) such as panels, essay readings and other formats that require special accommodations. Resources are limited and requests are considered on a first come first serve basis by the UMSS19 Executive Committee.

SUBMIT A REQUEST

APPLICATION DEADLINE: 3/25/19

2019 Summer Fellowship Award Recipients will be announced at the 2019 UMaine Student Symposium Luncheon Award Ceremony on 04/10/19 at the Cross Insurance Center in Bangor.

APPLICATION DEADLINE: 3/25/19

TO VIEW SAMPLE PROPOSALS FROM PREVIOUS AWARDED APPLICATIONS

CLICK HERE
The 2019 annual University of Maine Student Symposium (#UMSS19) is held every spring and is open to ALL disciplines. This event involves student presentations in the form of posters, exhibits, or oral presentations to be judged by UMaine faculty, staff and community members. The Graduate Student Government (GSG) and the Center for Undergraduate Research (CUGR) invite the submission of graduate and undergraduate research and creative activities projects. Submissions must be in the form of an abstract describing the focus, method or process, and outcomes of the project and submitted electronically at the provided link. Submissions must be authored by one or more students currently enrolled at the University of Maine (Orono) or University of Maine at Machias.

**NOTE:** All CUGR, MSGC, and CLASF Fellowship Award recipients are required to present at this event and must submit an abstract. For more information go to UMSS19.UMAINE.EDU

All submissions should be reviewed and pre-approved by the faculty mentor associated with the project. Any submissions without faculty mentor approval will not be accepted.

**Dryfta Submission Process**
To submit an abstract, you must:
1. Register for UMSS19 and create an account.
2. Once you have created your account you must log in to your dashboard to submit your abstract.

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**UMSS19**

**When:** April 10, 2019, All Day Event  
**Where:** Cross Insurance Center, Bangor  
**How to Apply:** UMSS19.umaine.edu  
**Deadline:** March 15, 2019 at 4:30pm  
**Acceptance Notifications:** March 25, 2019

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**UMSS19 ABSTRACT SUBMISSION DEADLINE IS MARCH 15 @ 4:30PM**  
**UMSS19 - APPLY HERE**
Abstract Submission Guidelines and Criteria

The following information provides you with the criteria that must be met when submitting your abstract:

- **Abstract Summary.** The abstract summary should contain enough information about your research and scholarly activities to allow assignment of proper judges that are well informed and prepared to score your presentation on the event day. **Limit the abstract to only 250 words. An additional 100 characters are allotted for Acknowledgments and References.**

- **Clarity.** Your work will be judged based on both the submitted abstract and your presentation on the day of the event. **You need to clearly define the research topic, state the motivation behind your work, and the benefits to the academic community as well as the general public.** Your hypothesis, methods, and results should be explained in simple and concise language that is accessible by reviewers outside your field.

- **Acknowledgments.** All abstracts and presentations need to include an acknowledgment statement if they received funding and/or support from a UM unit, grant, etc.
  
  - For example: This research was funded by the Center for Undergraduate Research 2018-19 Academic Year Fellowship.

- **References.** Reference formatting should be applied as follows,

NOTICE! Poster & Exhibit Presentations
RE: Poster Printing Costs & Deadlines

The timeline between participant announcements (March 25th) and the zero-cost poster-printing deadline (April 3rd) is very tight. Therefore, it is important to plan ahead and give yourself ample time to receive the appropriate approvals.

Things to Remember:
- All presentations must be reviewed and approved by your faculty mentor prior to printing.
- You must work with Printing Services to approve a proof of your poster prior to printing.
- ALL posters, whether they are associated with a Poster Presentation or an Exhibit Presentation, must be created using the UMSS19 poster templates.
  - Template will be provided in the acceptance letter notifications, they will also be posted on the UMSS19 website.
  - NOTE: Poster-Presentation Template and Exhibit-Presentation poster template are different sizes.
    - Template for poster presentations is 3'x4'
    - Template for exhibit presentation poster is 2'x3
  - Posters are NOT required for an exhibit presentation
- Posters that are paid for by the UMSS19 Committee must be printed through UM Printing Services.

Poster Printing Deadlines:
- Wed April 3, 2019, by 4 pm (FREE Posters)
- Fri April 5, 2019, by 4pm (50% discount)
- Last chance to guarantee your poster will be printed in time for the event is Mon April 8, by 3pm. You must have submitted and approved the proof of your poster by the 3pm deadline. Anything submitted after 4pm on Fri April 5, 2019 is at the students’ expense/no cost-sharing contributions will be made by the UMSS19 Executive Committee.

UMSS19 ABSTRACT SUBMISSION DEADLINE IS MARCH 15 @ 4:30PM
UMSS19 - APPLY HERE
The Center for Undergraduate Research (CUGR) is pleased to announce the 2018-2019 Academic Year Fellowship Student Recipients. The center’s advisory committee selected 26 proposals from 95 student submissions to be awarded $1,100 each during the academic year. Each proposal was reviewed by three reviewers and scored on clarity, research goals and objectives, importance to the field, time-line, budget and faculty commitment letters. Top proposals were then discussed at a panel.

In addition to the 26 CUGR Fellowship awards, 4 proposals were selected for funding provided by the College of Engineering (COE) Crowley Fund and 2 by the College of Natural Sciences, Forestry & Agriculture (NSFA).

CUGR 2018-2019 Academic Year Fellowship Award Recipients

(Student Name, Academic Focus, Project Title, Faculty Mentor)

- Gabrielle Bock, Chemistry, “Determination of Potential Biopolymer Substitutes for Intaglio Etching Constituents Based on Rheological and Adhesive Properties,” advised by William Gramlich
- Drew Brooks, Microbiology, “The Role of MyD88 in macrophage recruitment to C. albicans infection in Zebrafish Swimblisters,” advised by Robert Wheeler
- Robert Brittingham, Wildlife Ecology, “Filling the Knowledge Gap in deer mice and southern red-backed vole see cache management,” advised by Alessio Mortelliti
- Nicholas C. Diefenbacher-Kraall, Computing and Information Science, “Morphosis: Artificial Intelligence as Art,” advised by Sofian Audry
- Lucy Guarnieri, Biology, “The effects of European fire ants on blacklegged ticks on Mount Desert Island,” advised by Allison Gardner
- Ryan Kelly, Kinesiology, “Motion Capture-Virtual Reality Multimodal Tools to Optimize ROTC Training,” advised by Cameron Arndt
- Mark Lambrecht, Biomedical Engineering, “The Relationship between Breast Tumor Proliferation and the Structural Integrity of Tumors’ Microenvironment,” advised by Andre Khalil
- Sadie Libby, Psychology, “Childhood Trauma and Later Resilience: Is There a Cultural Component?” advised by Shannon McCoy
- Sarah McCallister, Microbiology, “Determining the Role of Prophage, Cuke, Gene Expression on Host Mycobacterium Smeagmatis Gene Expression,” advised by Sally Molloy
- Jordan Miner, Biomedical Engineering, “Imaging Zebrafish with Duchenne Muscular Dystrophy using Second-Harmonic Generation to Evaluate Myosin Structure,” advised by Karissa, Tilbury
- Coulter Morrill, Kinesiology & Exercise Science, “The Integration of Virtual Reality into Speech Therapy Practices,” advised by Nicholas Giudice
- Emma Newcomb, Marine Science, “Anthropogenic effects on marine mammal strandings and call reports in the Gulf of Maine from 2010 to 2015,” advised by Kristina Cammen
- Sarah Nichols, Microbiology, “Investigating the Antiviral Effects of Hemocyanin Derived from Homo americanus,” advised by Melissa Maginnis
- Olivia Reese, Communication and Journalism, “Tweets, Trust, and Pixie Dust: Understanding credibility in the age of social media,” advised by Judith Rosenbaum-Andre
- David Rondeau, Biology, “Carboxymethyl Cellulose Based Hydrogels for Anti-Biofouling in Marine Environments,” advised by William Gramlich
- Meghan Royle, Biology, “The effects of environmental lighting on circadian rhythm entrainment and voluntary alcohol intake: possible role for melatonin signaling?” advised by Alan Rosenwasser
- Renee Savio, Biology, “Using Categories as a Tool for Novel Learning,” advised by Shawn Ell
- Cassandra Steele, Zoology, “Impacts of Invasive Plant Species on Mosquito Larvae Survival,” advised by Allison Gardner
- Tiffany Tanner, History & International Affairs, “Trajectory of Baluchistan Insurgency,” advised by Asif Nawaz Baluchistan Insurgency advised by Asif Nawaz
The University of Maine’s Center for Undergraduate Research (CUGR) is pleased to announce the 2018-2019 Graduate and Undergraduate Maine Space Grant Consortium (MSGC) Student Fellowships. During the 2018-2019 academic year 7 undergraduate student projects and 4 graduate students were selected for funding through the MSGC. The purpose of the MSGC fellowship and scholarship programs at UMaine is to provide research opportunities to undergraduate and graduate students in Aerospace Technology, SpaceScience, Earth Science, Human Exploration/Space Development, and other science- or engineering-related fields.

The focus of the funded projects must be aligned with the research priorities of NASA’s Earth and space science strategic enterprises. The selected graduate students were awarded $6,000 each and the selected undergraduate projects were awarded $1,100 each.

### 2018-19 MSGC Graduate Fellowship Awards

<table>
<thead>
<tr>
<th>(Student Name, Academic Program, Project Title, Faculty Mentor)</th>
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<tbody>
<tr>
<td>1. <strong>Alison Chase</strong>, Oceanography, advised by Emmanuel Boss and Dr. Lee Karp-Boss</td>
</tr>
<tr>
<td>2. <strong>John Goulet</strong>, Engineering Physics, advised by C. Thomas Hess</td>
</tr>
<tr>
<td>3. <strong>Alex Koch</strong>, Physics and Astronomy, advised by David Batuski</td>
</tr>
<tr>
<td>4. <strong>Kayla Marquis</strong>, Biomedical Engineering, advised by Caitlin Howell</td>
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</tbody>
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### 2018-19 MSGC Undergraduate Fellowship Awards

<table>
<thead>
<tr>
<th>(Student Name, Academic Program, Project Title, Faculty Mentor)</th>
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</thead>
<tbody>
<tr>
<td>1. <strong>Bradley Butler</strong>, Biomedical Engineering, “Applying Observational Virtual Reality to Improve Student Learning of Human Musculature”, advised by Nicholas Giudice</td>
</tr>
<tr>
<td>5. <strong>Matthew S. Webber</strong>, Chemical Engineering, “Using Copper(I) and Silver(I) Iodide Salts in the Detection of Aqueous Amino Acids Histidine and Cysteine”, advised by Thomas Schwartz</td>
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</tbody>
</table>
2018-2020 CUGR Faculty Fellow Undergraduate Research Assistants

The University of Maine's Center for Undergraduate Research (CUGR) is pleased to announce the undergraduate students who have been chosen as research assistants for the 2018-2020 Faculty Fellow Cohorts. Each Faculty Fellow selected an undergraduate student research assistant and were awarded $1,100 each to use a stipend pay.

Facility Fellow Undergraduate Research Assistants

(Undergraduate student Research Assistant Name, College, Faculty Adviser Name)

- Charles Alexandre-Roy, NSFA, advised by Ek Han Tan
- Madison Bangs, NFSA, advised by Pauline Kamath
- Charlize Castro, CLAS, advised by Michael Kienzler
- Alyson East, NFSA, advised by Kate Ruskin
- Emily Gagne, NFSA, advised by Danielle Levesque
- Ella Glatier, NFSA, advised by Jennifer Perry
- Charles Alexandre-Roy, NSFA, advised by Ek Han Tan
- Madison Bangs, NFSA, advised by Pauline Kamath
- Charlize Castro, CLAS, advised by Michael Kienzler
- Alyson East, NFSA, advised by Kate Ruskin
- Emily Gagne, NFSA, advised by Danielle Levesque
- Ella Glatier, NFSA, advised by Jennifer Perry
- Mitchell Harling, COE, advised by Karissa Tilbury
- Aldous Hofmann, NFSA, advised by Yongjiang Zhang
- Emily LeClair, COE, advised by Caitlin Howell
- Emma Paradie, NFSA, advised by Kristy Townsend
- Jenna Paul, EDHD, advised by Christopher Nightingale
- Elizabeth Piotrowski, NSFA, advised by Kristina Cammen
- Andrea Ramirez, NFSA, advised by Nishad Jayasundara
- Nathan Sprangers, CLAS, advised by Phillip Edelman
- Jack Stanton, NFSA, advised by Erik Blomberg
- Benjamin Williams, Honors, advised by Sally Molloy

US-Spain

International Research Experience for Graduate and Undergraduate Students in Electrified and Autonomous Transportation

The Electrical and Computer Engineering Department at the UNIV of Maryland and Technical UNIV of Madrid offer undergraduate and graduate students an exceptional opportunity to participate in pioneering research on Electrified and Autonomous Transportation systems with faculty mentors from University of Maryland and Technical University of Madrid. This program is funded by the National Science Foundation (NSF).

Program Dates: June 4, 2019 - July 27, 2019
Application deadline: March 1st, 2019
Apply Here: Apply Here
More Resources: Admission Criteria - Section 4

For additional information please contact:
Alireza Khaligh, Ph.D.
University of Maryland
Phone: +1 (301) 405-8985
EML: khaligh@ece.umd.edu
URL: https://khaligh.ece.umd.edu/

Program Highlights:
- $5,000 stipend, room and board, and travel allowance.
- Tours of local industries and laboratories in Madrid, Spain.
- Inspirational technical and professional development seminars.
- One-on-one training and mentoring by national and international faculty members.
- Opportunities to publish and present research outcomes.
- Build a strong collegial community between participant students, and involved faculty.

For More Information
Call for proposals:
The Cooperative Forestry Research Unit (CFRU) and the Center for Undergraduate Research (CUGR) are pleased to announce the Undergraduate Research Summer Fellowship ‘Call for Proposals’. This program will support undergraduate student engagement in faculty-mentored research on existing CFRU funded projects. Three fellowships will be awarded for the summer of 2019 on a competitive basis; the competition is open to all UMaine undergraduate students from all majors. Each fellowship provides up to $3,100 in wage support for one student to conduct faculty-mentored research in support of an existing CFRU funded project. The proposal will be reviewed for clarity of objectives, importance to the project, alignment within the project, and an indication of the project’s feasibility.

Eligibility Criteria
Any undergraduate student currently enrolled in a degree program at the University of Maine is eligible. Proposals are submitted by a faculty mentor who is listed as a PI or collaborator on a currently funded CFRU project.

Application Guidelines
1. Applicants will need to describe the proposed student research project and how it adds value to the parent CFRU project.

2. Student Award Recipients must submit a final report to the CFRU Program Leader by September 30th, 2019.

3. All student recipients are required to submit an abstract and present the product of their research at the 5th Annual UMaine Student Symposium in the Spring of 2020.

Deadline and decisions
To apply for a fellowship(s) please send a one-page undergraduate student research proposal to brian.roth@maine.edu no later than February 22nd, 2019. Applications will be reviewed by a panel consisting of the CFRU Program Leader, CRSF Director and the CFRU Executive Committee. Final decisions on awards will be announced no later than March 1st, 2019.
2019 UM STUDENT SYMPOSIUM
KEYNOTE SPEAKER

We are pleased to announce this year's Maine Poet Laureate, Stuart Kestenbaum, will be the KeyNote Speaker at the 2019 UM Student Symposium. We invite everyone to come hear him speak from 4:00-4:30PM on April 10, 2019 at the Cross Insurance Center in Bangor!

For more information on how to participate or attend the event please go to: umss19.umaine.edu

UM STUDENT SYMPOSIUM
CALL FOR JUDGES

We need your help. Any UM faculty, staff, or graduate student are invited to judge graduate and undergraduate student presentations on at the 4th Annual UM Student Symposium.

Judge and Volunteer Sign-up Form
www.tinyurl.com/umss19vol

STUART KESTENBAUM
Maine Poet Laureate

“Stuart Kestenbaum writes the kind of poems I love to read, heartfelt responses to the privilege of having been given a life. No hidden agendas here, no theories to espouse, nothing but life, pure life, set down with craft and love.”
- Former US Poet Laureate Ted Kooser

#UMSS19

APRIL 10, 2019
Cross Insurance Center in Bangor
Become a UMAINE RESEARCH Scholar!

2018-2019 CUGR Advisory Committee

- Ali Abedi – Professor of Electrical and Computer Engineering, COE, CUGR Director
- Francois Amar – Dean, Honors College (Ex-officio member)
- Judith Andre-Rosenbaum – Assistant Professor of Communication & Journalism
- Jim Artesani – Associate Dean of Graduate Education, Research, and Outreach, EDHD
- Laura Artesani – Associate Professor, Music Education Coordinator
- George Criner – Associate Dean, NFSA
- Sally Dixon – Honors Preceptor of Genomics, NFSA
- Deborah Eremita – Assistant Professor of Nursing & Undergraduate Program Coordinator
- Sara Imam – Student Representative
- Lee Karp-Boss – Associate Professor, marine Sciences
- Jean MacRae – Associated Professor of Civil and Environmental Engineering
- Michael Robbins – Associate Dean, CLAS
- Patricia Poirier – Associate Professor of Nursing
- Stefano Tijerina – Adjunct Assistant Professor, Political Science

CUGR Staff

- Ali Abedi - Assistant Vice President for Research
- Alexandria Jesiolowski - Administrative Specialist
- Colby Ross - Student Media Assistant
- Jaymie Pratl - Student Administrative Aid

CENTER FOR UNDERGRADUATE RESEARCH (CUGR)
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