Hi!

As the semester winds down and you complete your finals this week, the Office of Undergraduate Research would like to wish you a safe and positive summer ahead.

Here's what's included in this week’s newsletter:

1. Congratulations graduates
2. OUR summer operations
3. Summer Undergraduate Research support at VT- training, community, and more!
4. Summer and/or Fall Research Opportunities- VT's Antenna Range Project
5. Summer 2020 Research Opportunity in Nanotechnology
6. Invitation to participate in research project on your experience with your research mentor
7. U.S. Army Research Institute of Environmental Medicine Summer Internship
8. Science Undergraduate Laboratory Internships Program
9. Apply to present your work at the Discovering the Humanities Conference
10. Call For Proposals: SECAC/Art Studio & Art History panel on undergraduate research and mentoring

1. Congratulations graduates

Congratulations to all graduating seniors! I know this is not the way you anticipated leaving VT but I hope you can reflect on all of your individual experiences and accomplishments over your entire time at VT that have helped to shape you into the person you are today, and know that you leave VT ready for your next adventure, whatever that might be. Good luck!

2. OUR summer operations

The Office of Undergraduate Research will continue remote operations throughout the summer. You can always check OUR website for updates and information related to undergraduate research. OUR Ambassadors will be on break during the summer so if you need help or have questions please email us at undergraduateresearch@vt.edu.

OUR listerv will slow down and reduce in regularity once the semester ends but I will continue to post messages when there are important updates or opportunities to share.

3. Summer Undergraduate Research Support at VT- training, community, and more!

Will you be conducting virtual research this summer and looking to complement your research experience with professional development activities and join a community of peers? Or, do you want to prepare yourself to engage in research this Fall? The OUR is offering training and professional development programming throughout the summer, in partnership with University Libraries, starting on
May 26. Learn more on our summer webpage and register to participate in OUR summer programming and/or join our summer listserv.

4. Summer and/or Fall Research Opportunities- Antenna Range Project

We are seeking students to work this summer (remotely) and/or this fall to help develop a web interface for remote control and monitoring of a low-cost antenna range. The range will measure antenna patterns (two- or three-dimensional representations of antennas’ directional characteristics).

We are also interested in making the antenna range more easily portable, and in improving measurement accuracy by using signal processing techniques to remove signals that are reflected from objects near the range.

A limited number of paid positions are expected to be available for undergraduate students. The number of positions and hours will depend on availability of individual students.

Alternatively, undergraduate students in ECE or CS may earn independent study or undergraduate research credit and graduate students in these departments may earn independent study credit if approved by the respective departments. Students may also join the project as volunteers.

Students who participate in this project will:
- Learn basics of antennas including fundamental concepts, relevant specifications, and major types of antennas
- Gain experience working as part of a geographically distributed interdisciplinary research team
- Gain discipline-specific experience in software and web-page development, antenna measurement, software-defined radio (SDR) and/or digital signal processing (DSP)
- Develop a resource that will be usable for online learning by students and faculty throughout the US and potentially worldwide, as well as for local STEM outreach to potential future engineering students
- Learn about opportunities to continue this research beyond the initial project and to participate in other research related to wireless communications, visualization and virtual reality, and engineering education

If you are interested in joining the project team, please send the following to cdietric@vt.edu with subject “Antenna Range Project”:
- Resume (1-2 pages), that lists your contact information, major or majors, relevant coursework, related course projects and other projects at VT or elsewhere, employment, and other related experience. The resume should highlight any skills that are particularly relevant to the project and include examples of how you have used these skills.
- Dates during the summer and fall and number of hours per week you would be available to work on the project
- Whether you would be interested in each of the following possibilities for participation in the project: wage researcher position (undergraduate students only), participation for course credit (ECE and CS students, undergraduate or graduate independent study or undergraduate research), participation as a volunteer

Please direct all questions to Dr. Carl Dietrich at cdietric@vt.edu.
5. Summer 2020 Research Opportunity in Nanotechnology

Accelerated Nanotechnology Training for Undergraduate Students at the NSF SCENE Center; 100% Virtual

Program dates: July 6-24, 2020

Apply now

Application deadline: June 1, 2020

Training Experience:
- 3-wk live-streamed accelerated nanotechnology cleanroom training course
- $2000 stipend
- Mailed lab kits facilitate hands on activities
- Culminating online Technical Conference
- Professional development seminars included

More information can be found at Research & Training Program
Contact: TheNanotechSCENE@gmail.com

6. Invitation to participate in research project on your experience with your research mentor

We are testing a survey about undergraduate researchers’ experiences with their research mentors. We have received a lot of input from undergraduate researchers who have had positive experiences with their research mentors, which is great! **We need input from undergraduate researchers who have had mixed or negative experiences with their research mentors.**

If you are:
- At least 18 years old,
- Have completed at least one semester or summer of STEM research in the past year, and
- Have had mixed or negative experiences with a research mentor, would you please take a few minutes to respond to this survey? [https://ugeorgia.ca1.qualtrics.com/jfe/form/SV_2n4ocsB0wF6FhUp](https://ugeorgia.ca1.qualtrics.com/jfe/form/SV_2n4ocsB0wF6FhUp)

Undergraduate researchers who complete the survey will be compensated with a $10 gift card.

Thanks very much for considering this! Please feel free to email if you have any questions regarding this study.
Please also share this with any undergraduate researchers who may have had mixed or negative experiences with a research mentor.

Your responses are important for understanding the range of mentoring that undergraduate researchers experience. Thanks for taking the time to respond!

Sincerely,

Erin Dolan, Professor (eldolan@uga.edu) Biochemistry & Molecular Biology
Lisa Limeri, Postdoctoral Researcher (lisa.limeri@uga.edu)
Sage Royston, Undergraduate Researcher (kathren.royston25@uga.edu)
Isabelle Koscik, Undergraduate Researcher (imk72899@uga.edu)
Riley Hess, Graduate Researcher (riley.hess@uga.edu)
Briana Outlaw, Undergraduate Researcher (bao13800@uga.edu)

7. U.S. Army Research Institute of Environmental Medicine Summer Internship

The U.S. Army Research Institute of Environmental Medicine (USARIEM) is offering an undergraduate learning opportunity, stipend provided. The learning opportunity will be centered around research studies focused on elite female Warfighter performance and military load carriage. These studies seek to characterize female Warfighters serving in combat roles as well as develop new methods for predicting energy expenditure and fatigue in active Soldiers. As a participant, you will take part in the collection and organization of ongoing and upcoming research.

Learn more and apply here.

8. Science Undergraduate Laboratory Internships Program

The Science Undergraduate Laboratory Internships (SULI) program encourages undergraduate students and recent graduates to pursue science, technology, engineering, and mathematics (STEM) careers by providing research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns appointed at one of 17 participating DOE laboratories/facilities. They perform research, under the guidance of laboratory staff scientists or engineers, on projects supporting the DOE mission.

The Science Undergraduate Laboratory Internships (SULI) Program is now open for the 2020 Fall Term. Applications are due May 28, 2020 at 5:00 PM ET. Learn more and apply here.

9. Apply to present your work at the Discovering the Humanities Conference
The Hood College Humanities Council and the Master of Arts in Humanities Program are excited to announce our fourth annual undergraduate and graduate student conference, Discovering the Humanities. The conference is open to all current undergraduate and graduate students, including those planning to graduate in spring 2020. Students may submit a seminar paper, departmental honors paper, research project, or thesis produced for any humanities-related course in art and archaeology, English, global languages and cultures, history, music, philosophy, religion, or any other humanities program unique to your institution.

This is an opportunity for students to experience an academic conference and practice delivering a paper in a relatively low-pressure environment. Students will also have an opportunity to get to know others with similar interests.

The conference will take place on Saturday, September 12th on the campus of Hood College in Frederick, MD. Learn more here.

To apply, submit the following to CAMPION@HOOD.EDU

– Cover page: include your name, grade-level in Fall 2020, paper title, and date paper was written or is expected to be completed.
– Abstract: A 300 word summary of your paper.

Submissions are due to CAMPION@HOOD.EDU by 5:00PM, TODAY, May 11, 2020.

For more information, contact Dr. Aaron Angello at ANGELLO@HOOD.EDU or Dr. Corey Campion at CAMPION@HOOD.EDU

10. Call For Proposals: SECAC/Art Studio & Art History panel on undergraduate research and mentoring

Increasingly, institutions are emphasizing undergraduate research as a high-impact practice and encouraging faculty members to assume responsibility for facilitating these projects. While meaningful undergraduate research is not new (and SECAC has a strong tradition of celebrating this work) the scale of these projects and the number of involved students continue to grow. This panel hopes to share strategies of successful mentorship and facilitation that allow our undergraduates the opportunity for independent research and engaged learning while balancing the demands on professors and protecting our own research, writing, and personal time. Submissions from art history and studio practices are encouraged and participants are welcome to include their undergraduate researchers in the presentation. Projects that have or are adapting to remote/online iterations are particularly encouraged. The 2020 meeting of SECAC will take place in Richmond, VA from October 21-24, 2020. https://secacart.org/ Deadline extended to May 15.

Good luck with your finals. Have a great week and summer ahead!

Best,
Keri
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