

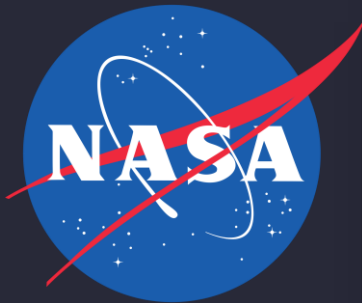


Community College Faculty and Student Opportunities in STEM



Virginia Space Grant Consortium

- NASA and state partnership for STEM education, workforce development, and research
- Working with more than 800 partners in government, academic, and industry organizations since 1989





Consortium Members

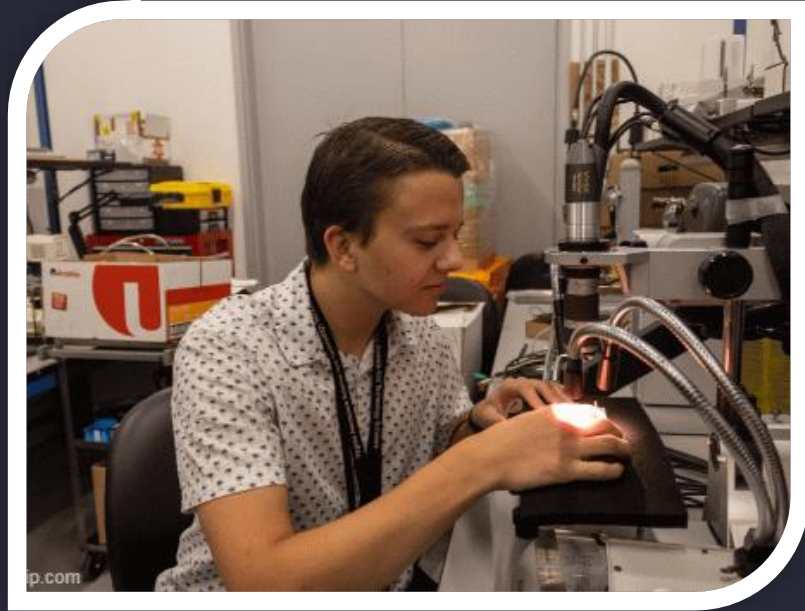
- NASA Langley Research Center
- NASA Wallops Flight Facility
- Old Dominion University
- Hampton University
- William and Mary
- University of Virginia
- Virginia Tech
- MathScience Innovation Center
- Virginia Innovation Partnership Corporation
- State Council of Higher Education Virginia
- Science Museum of Virginia
- Virginia Air and Space Science Center
- Virginia Department of Education
- Virginia Aerospace Business Association
- Virginia Department of Aviation
- **Virginia Community College System**

All 23 Virginia community colleges are members of VSGC

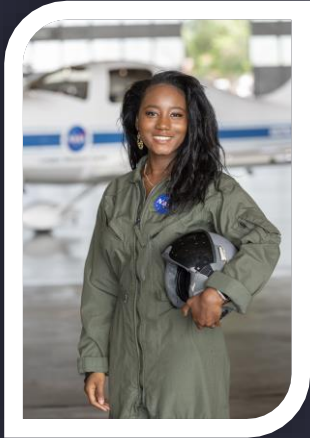
VCCS Chancellor on Board of Directors

Free Community College Programs

- NASA research experiences
- STEM industry internships
- Scholarships
- Hands on Uncrewed Aircraft Systems (UAS) training
- Flight project support
- Faculty professional development and project support



STEM Takes Flight



- Free NASA research experience
- Paid
- Hands on
 - Engineering software tools, fabrication of aerospace composite models, flight dynamics simulation development, entry, descent, and landing simulation software, unmanned aerial system building and flight testing, test facility support, machine learning, balloon science, and more
- Open to all Virginia community college students with a STEM major
 - Current and rising sophomores
 - U.S. citizen
 - 18 years old
 - 2.5 GPA
 - At least 6 credit hours

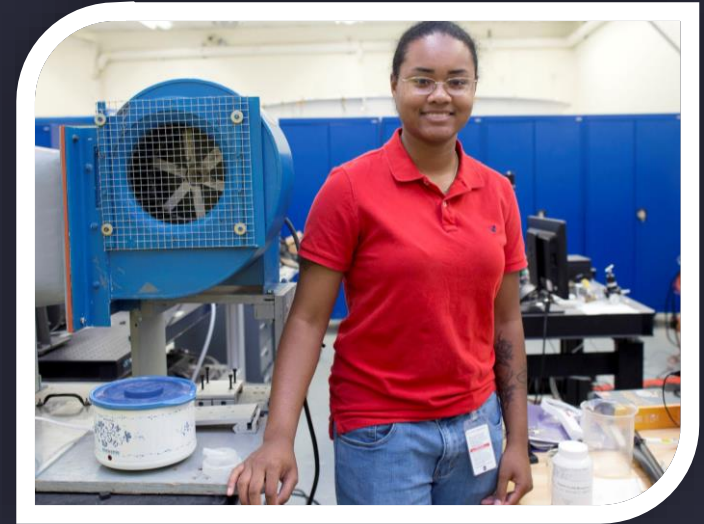
Apply here: <https://spacegrant.net/apps/stf/>

Contact: Nicole Shaw, Inshaw@odu.edu, (757) 766-5210



Commonwealth STEM Industry Internships Program

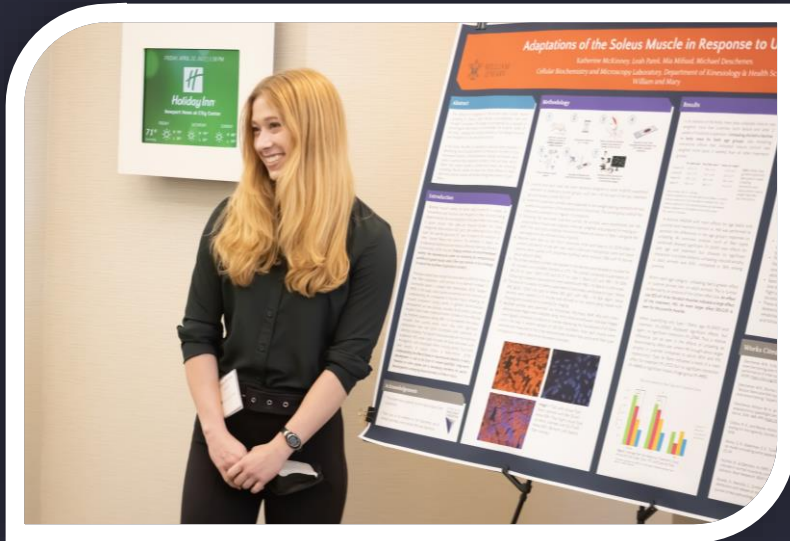
- Paid internships in STEM fields
 - U.S. citizen
 - 18 years old
 - At least 6 credits per semester at a Virginia college
 - Completed at least 30 credits
 - 2.7 GPA
 - STEM major
- Apply once to reach more than 200 companies across Virginia
- Recognition from the Governor and hometown press release
- No cost service for Virginia undergraduate STEM majors



Apply here: <https://spacegrant.net/apps/?pk=csiip>

Contact: Melissa Brown, mbrown@odu.edu, (757) 766-5210

Scholarships



- \$2000 scholarship
- Open to all Virginia community college students with a STEM major
 - U.S. citizen
 - 3.0 GPA
 - Completed at least 9 credit hours to apply

Apply here: <https://vsgc.odu.edu/communitycollegescholarships>

Student Flight and Design Projects



- Funding is available to support flight and design projects
 - Previous projects include:
 - Rocketry
 - Small satellites

Faculty Professional Development

- STEM Takes Flight Faculty 3-day workshop at NASA's Wallops Flight Facility
 - Models importance of teamwork and communications in 21st century workforce skills
 - Helps faculty see how skills are applied in real-world workplace situations



Apply by April 9 to STEM Takes Flight: https://www.surveymonkey.com/r/STF_PD_2023

Contact: Ian Cawthray, icawthra@odu.edu (757) 766-5210

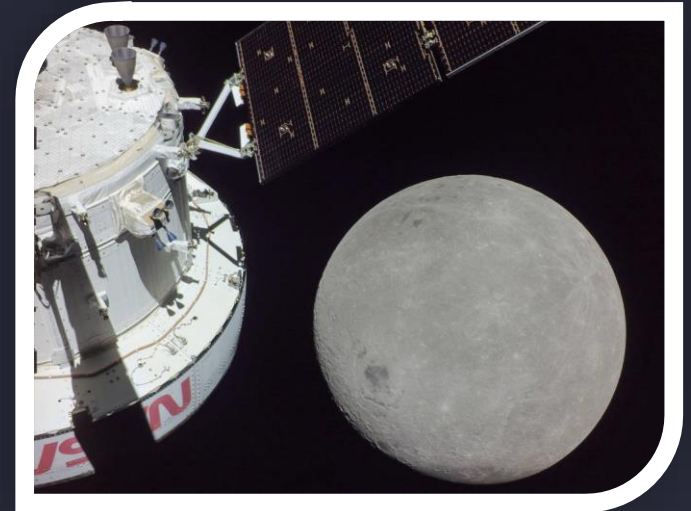
UAS Course Development and Faculty Training



- Several community colleges currently offer courses and pathways in uncrewed aircraft systems (UAS or drones)
 - Programs can be used as models
 - More UAS professional development and student opportunities are expected

Faculty Innovation Project Proposals

- VSGC supports innovative project awards
- Projects are member-led, including all 23 Virginia community colleges
- Innovative projects where a small grant would make a difference
- Areas of interest:
 - Activities related to NASA's Artemis mission
 - Programs related to NASA Earth system science data
 - Research experiences for undergraduate students
 - Service-learning experiences for students
 - Teacher professional development
- Calls for proposals are typically made in January of each year





Here to Help

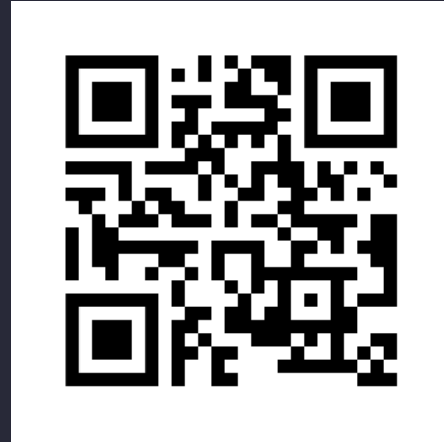


- VSGC is a resource for you
 - Connection to NASA & other key resources
 - Partnership on proposals
 - Advisement and mentorship

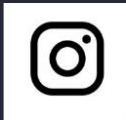
Contact

- Virginia Space Grant Consortium
600 Butler Farm Road Suite 2253
Hampton, Virginia 23666
- vsgc@odu.edu
- Phone: 757.766.5210

<https://vsgc.odu.edu/>



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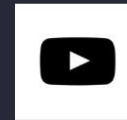
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