



2020-2021
ANNOUNCEMENT OF OPPORTUNITY
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**Unmanned Aerial Vehicle (UAV)
Research Program**

Applications Open:	December 4, 2020
Application Deadline:	February 16, 2021
Award Announcements:	April 2, 2021
Work Period:	June 7, 2021 to September 15, 2021*
	*Start time for the work period is flexible

Awards:

- \$4000** stipend – student research fellowship (maximum four (4) students)
- On-campus housing at Lawrence University provided (optional)

*** Based on availability of funds.*

Purpose: The Wisconsin Space Grant Consortium (WSGC) is looking for four (4) full-time undergraduate students from affiliate member institution majoring in a science, math, or engineering discipline to join the science team of our Unmanned Aerial Vehicle Science Fellows program. Interested students do not need to have experience, a pre-formed team, or an initial idea for a project. Interested students do need a desire to work with other students to conceive of and carry out a scientific mission using UAVs and remote sensing techniques. The WSGC will assemble the team from selected applicants.

Program: The Unmanned Aerial Vehicle Student Satellite Initiative is an innovative NASA project that provides students an opportunity to conduct earth observing experiments using remote sensing technologies and techniques. Selected students will form a collaborative team of science, data science, and engineering specialists, whose task will be to design and execute a novel scientific study of the earth's surface. Students will be expected to define an important science question or set of questions that might be addressed by UAVs equipped with thermal, near-infrared, and color cameras. Students will design the experiments, fly the mission to collect data, analyze the resulting data, and ultimately prepare a paper for inclusion in the annual WSGC proceedings.

Work period: Students will be team members for the period from approximately June 7, 2021, to September 15, 2021, with some final analysis and writing through December. Start time is flexible, based on the end of the spring term for each institution. The 10-week summer research will conclude August 13, 2021. The UAV team members will present their results at the Annual Wisconsin Space Conference to be held at Milwaukee School of Engineering in Milwaukee, WI in August 2021 and submit a paper to the Proceedings of the Wisconsin Space Conference by September 15, 2021.

Location: Meetings of the team will take place at Lawrence University in Appleton, WI. Students must be able to provide their own transportation to Appleton. A field vehicle is available for transportation to and from study sites.

To Apply:

- Register on the WSGC website (<https://spacegrant.carthage.edu/forms/account/login>). Applicants will be prompted to update personal information annually.
- [Sign in](#) and submit the [Grant Application Form](#) (*applicants may apply to multiple funding programs*) and supporting documents.

Application Requirements: Applicants who meet the following requirements can apply for this scholarship by registering and applying online at spacegrant.carthage.edu/about/login:

- U.S. citizen
- Enrolled full-time in, admitted to, or applied to any undergraduate program at a [WSGC college or university](#) (*Students enrolled in a two-year program who declare their plan to be enrolled at a WSGC Affiliate are eligible*)
- At least a sophomore standing as of fall 2020 and must be enrolled through December 2021
- Minimum 2.5 GPA (*Proposals that include a GPA of less than 2.5 will be evaluated on a case-by-case basis*)
- Strong interest in the success of the project (*motivation is more important than experience, with self-motivation and ability to complete work with minimal supervision being absolutely critical*)
- Completed application online (*see Supporting Materials Required with Application below*)

***NOTE:** After the submission deadline, WSGC may request an individual interview via phone or Zoom.

Supporting Materials Required with Application:

- Letter of Interest
- Resume
- Two faculty references (Names, Emails, and Phone Numbers)

See [Tools & Tips](#) for more information on how to create business correspondence and a resume.

The Consortium invites applications for the Unmanned Aerial Vehicle Research Scholarship Program for the 2020-2021 academic year. For consideration, application forms must be complete and be accompanied by supporting documentation. The Consortium especially encourages applications from members of minority groups, women, and persons with disabilities, and from those pursuing interdisciplinary aerospace studies in, but not limited to, engineering, the sciences, architecture, law, business, nursing and medicine. Award winners will be chosen based on academic performance, aerospace-related promise, and the demonstrated interest in pursuing a career in STEM/aerospace. The diverse scientific and engineering needs of the team will also be considered.

Award Acceptance Components: Submit all reports and required documents to the [WSGC application website](#) grant management page under [Manage Applications/Current Grant Cycle Applications/Unmanned Aerial Vehicle](#):

- Award Acceptance Letter
- W9 (*Carthage College award recipients submit a W4 and I9*)
- Media Release Form
- One-Paragraph Biography
- Professional Photo
- Interim Report
- 2-3 Project Photos (optional 1-minute video) Featuring Awardee w/Project
- Final Report

Complete the following tasks:

- Office of Education Survey must be completed by December 15, 2021
- Present Project at the Annual Wisconsin Space Conference in August
- Submit a Proceeding Paper by Sept. 15th to the [Proceedings of the Wisconsin Space Journal](#)
- Submit a Student Story

Please direct questions about the [Unmanned Aerial Vehicle Research Scholarship Program](#) to:

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This funding opportunity is made available for the pursuit of space-related research and/or activities through the National Space Grant College and Fellowship Program: NASA Educational Cooperative Agreement #80NSSC20M0123. Catalog of Federal Domestic Assistance (CFDA) number for this award is 43.008.

All awards are fully competitive awards of opportunity in which applications are reviewed by the WSGC Technical Advisory Panel and other experts as needed. Awards are made by the Assistant Director based on recommendations from the Associate Director.