

Plan Overview

A Data Management Plan created using DMP Tool

Title: Advancing sUAS Technicians' Education through Fieldwork Experience, Curriculum Development and Outreach

Creator: James Taggart

Affiliation: Atlantic Cape Community College (atlantic.edu)

Principal Investigator: James Taggart

Funder: National Science Foundation (nsf.gov)

Template: NSF-EHR: Education and Human Resources

Project abstract:

The project's overarching goals are (1) to provide Atlantic Cape students with enhanced learning experiences, including research opportunities, to better prepare them for the workforce in small unmanned aircraft systems (sUAS); and (2) to provide technical educators with professional development experiences that will enhance their ability to teach sUAS in their classrooms.

Objectives are to: •Improve students' technical skills in collecting data using an unmanned aircraft system equipped with state-of-the-art sensors, and subsequently processing this data using industry-standard data processing software applications. •Adapt and/or develop learning activities that provide students with an opportunity to conduct and/or participate in either student developed and/or ongoing data collection and research. •Collaborate with industry and university partners to provide students with scientific research fieldwork experiences. •Create a Summer Academy for Remote Sensing with Unmanned Aircraft Systems designed to prepare teachers and college faculty for Federal Aviation Administration licensure and build a repository of lesson ideas for the integration of drones across the content areas. •Design and develop STEM enrichment activities for underrepresented high school students.

Start date: 07-01-2021

End date: 06-30-2024

Last modified: 07-08-2024

Copyright information:

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Advancing sUAS Technicians' Education through Fieldwork Experience, Curriculum Development and Outreach

Roles and responsibilities

Specify the roles and responsibilities of all parties with respect to the DMP activities.

James Taggart , PI responsible for storage and organization of project results, particular data, metadata, samples, software, curricula, documentation, publications, and other materials generated in the course of the proposed project.

Types of data or products

Specify the types of data or products that will be generated (e.g., test scores, survey responses, images, data tables, video or audio data, software, curricular or exhibit materials).

The types of data and products to be generated instrument datasets, curricula, and images.

Data storage, preservation, and sharing

Specify how data or products are to be stored, preserved, and shared.

Data and products are to be stored on an Atlantic Cape Internet server named Venus publically accessible at <http://venus.atlantic.edu/jtaggart/drones> and on a publically accessible Google Drive.

Data and products are to be preserved on Atlantic Cape's server for 5-years beyond the end of the project. Data stored on Google drive is to be preserved indefinitely.

Data and products for dissemination will be licensed using an open Creative Commons license.

Restrictions on data or product storage, access, preservation, or sharing

Specify any restrictions on data or product storage, access, preservation, or sharing

Student data protected by FERPA is not to be publically accessible unless redacted.

Data formats

Specify what data formats will be used (e.g., XML files, websites, image files, data tables, software code, text documents, physical materials).

Non proprietary data formats will be used. Expected formats: jpg, tif, instrument format, pdf, html,shp, xml, csv, and txt.

Period of data retention

Specify how long access to data and products, and sharing of data or products, will be maintained after the life of the project, and how any associated costs will be covered and by whom.

Data will be stored in two locations Atlantic Cape's 'Venus' Internet server and Google Drive. Data stored on the Venus server will be maintained for at least 5 years beyond the end of the project. Data stored in Google Drive will be maintained indefinitely. Any and all associated costs will be paid by Atlantic Cape.

Third-party preservation

If data or products are to be preserved by a third party, please refer to their preservation plans if available.

No, third party data preservation.

Additional possible data management requirements

More stringent data management requirements may be specified in particular NSF solicitations or result from local policies and best practices at the PI's home institution. Additional requirements will be specified in the program solicitation and award conditions. Principal Investigators to be supported by such programs must discuss how they will meet these additional requirements in their Data Management Plans.
