

Investigating Cloud Conditions and Icing for UAS

Enhance UAS safety and performance by investigating unique icing conditions. Current aircraft icing data isn't representative of UAS flight profiles. This project focuses on analyzing UAS-specific cloud conditions and testing these in an icing wind tunnel.

Project Tasks (Duration: 6 months):

- **Literature Review:** Study existing research and the Cloudnet database.
- **Data Collection & Analysis:** Extract and process cloud data. Determine UAS-specific envelopes and compare them to Appendix C.
- **Test Matrix Design:** Define test parameters and design the test matrix.
- **Experimental Testing & Data Analysis:** Set up and conduct tests in the icing wind tunnel and Analyze data.
- **Reporting :** compile a final report.



Requirements: Background in aerospace engineering, atmospheric science, or related fields. Data analysis and experimental design skills are a plus.