

PROJECT OVERVIEW REPORT

1. UTC Identifying Number
69A3551847102
2. Center Identifying Number
CAIT-UTC-REG5
3. Project Title
Implementation and Development of UAS Practical Training for Inspection and Monitoring Activities
4. Principal Investigator & Contact Information
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7. Project Description
This proposal aims to design and develop training curricula including the development of assessment instruments for deriving both formative and summative learning outcomes. This curricula will evaluate the practical flight abilities of prospective UAS pilots. The team will also provide research into powered tether systems for long duration UAS flights. The team will evaluate UAS tether for use cases such as traffic monitoring.
8. Implementation of Research Outcomes (or why not implemented)
The intended outcome of the project is the development of a UAS inspection protocol, leading to the development of training curricula for multi-modal transportation infrastructure assessment via UAS-based remote sensing. This can significantly impact the quality of data and lower the risk portfolio for missions. The project will evaluate UAS operations and make recommendations on procedures for inspection to assist decision making by regional agencies.
9. Impacts/Benefits of Implementation (actual, not anticipated)
To Be Determined

10. Dates and Budget

Start date: 1/1/2019

End date: 12/31/21

UTC (CAIT) Dollars: \$170,472

Cost Sharing: \$39,255

Total Dollars: \$209,727

11. Keywords

Unmanned Aircraft Systems; UAS; Bridge; Traffic Monitoring; Training

12. Web Links (Reports and Project Website)

<https://cait.rutgers.edu/research/implementation-and-development-of-uas-practical-training-for-inspection-and-monitoring-activities/>