

**Student Research Opportunity Meeting**

Are you interested in Unmanned Aerial Systems (UAS)? Do you want to get involved with research projects in this field? If so, please attend the upcoming meeting where the Autonomous Flight Systems Laboratory ([AFSL](http://www.aa.washington.edu/research/afsl/)) will discuss 3 UAS related projects with opportunities for student involvement during the summer of 2015.

**What:** UAS Student Research Opportunity Meeting

**Who:** Any UW student (both undergraduate and graduate)

**When:** June 9, 2015, 11:00 – 12:00pm

**Where:** Guggenheim 305

**Why:** Learn more about UAS activities/opportunities in the AA department

**Project 1: AIAA Design, Build, Fly Competition**

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| Each year UW students participate in the AIAA Design, Build, Fly competition. Students design, fabricate, and demonstrate flight capabilities of an unmanned, radio controlled aircraft. Students then compete in an international fly-off in the spring. | DBF 2014  *Students competing in the 2014 DBF competition in Wichita, KS* |  | *86963994-8C62-4632-A4C8-73D671211C5F*  *Multispectral image of showing vegetation health.* |

**Project 2: Collaborative Air/Ground Robotics for Ecological Monitoring**

The UW AFSL is activitely developing algorithms, sensors, and infrastructure to support collaborative missions between unmanned air and ground vehicles. These system have applications in areas such as precision agriculture, biological tracking, and invasive plant species monitoring.

**Project 3: Algorithms for GPS-Denied Navigation**

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|  | In this project, we seek to develop a control system for UAS operating in GPS-denied environments. The system will allow the vehicle to navigate or maintain an orbit using a combination of visual sensors (cameras) and other sensor inputs.  *Left: Aircraft using a visual anchoring system to stabilize an orbit* |

**For more information, please contact Dr. Christopher Lum (**[**lum@uw.edu**](mailto:lum@uw.edu)**)**