

ASL Provides Summer Research Opportunity to WSU Undergraduate Students

The Applied Sciences Laboratory welcomes Samantha Arnot and Daniel Ludwig to the Summer Undergraduate Research Program: *Aerospace Composite Research*. This program offers an unparalleled opportunity for undergraduate students to gain hands-on experience while undertaking cutting edge projects at a unique contract research organization. Samantha and David are performing applied research investigations of experimental approaches to optimize materials utilized in the aerospace industry.

The students are supervised by Senior Scientist Santanu Chaudhuri, Ph.D. Dr. Chaudhuri's research employs state-of-the-art computation modeling and accelerated testing to identify better ways to manufacture corrosion resistant composite thermoplastic parts. Partially funded by a grant from the Joint Center for Aerospace Technology Innovation (JCATI), the work is being conducted in partnership with Triumph Composite Systems, Inc., an aerospace industry leader in the manufacturing of high-quality composite interior components.

At the end of June, Samantha and Daniel will attend the *Future of Aerospace Innovation in Washington Symposium*, hosted by the University of Washington in Seattle. They will have the distinctive opportunity to network and present their summer research efforts to aerospace industry leaders.

Samantha Arnot

Samantha grew up in Kent and Puyallup on the western side of Washington State. She is a proud recipient of the Rensselaer Medal for Outstanding Math and Science High School Juniors. While attending Pierce College for the Running Start Program, Samantha was on the Honor Roll and a member of the Phi Theta Kappa Honors Society. Samantha graduated from Washington State University in May of 2013 with a B.S. in Materials Science Engineering, and a minor in mathematics. While at WSU, she received the Regents Scholar, R.S. Dalrymple Memorial Scholarship, and the Washington State Opportunity Scholarship. She also served on the Academic Affairs Committee (AAC) as well as the President Student Advisory Board. Samantha is excited to be involved with the JCATI project at ASL this summer, and appreciates that the experience will represent a bridge from academics to industry.



Daniel Ludwig

Daniel grew up on a small farm on the Key Peninsula in Washington State, seeing more of the outdoors than the inside of a schoolroom. His older brother achieved success as an electrical engineer for Honeywell, thus inspiring Daniel to seek a college education. After three years at Tacoma Community College, he moved on to Washington State University (WSU) to work towards a Bachelor of Science in Mechanical Engineering. While at WSU, he received the Boeing Cybergrant, the Boeing Team Mentor Scholarship, and an award of recognition from the Team Mentoring Program. Daniel will graduate cum laude with a B.S. in Mechanical Engineering this December. Daniel envisions a career in the aerospace industry in an engineering-based environment working on innovative and original structural designs.

