AEROSPACE ENGINEERING
ENGINEERING

SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATE WOMEN

APPLICATION DEADLINE: 03/01/2019

PROJECT TITLE:Fan Design for Advanced NASA Aircraft Concept

Mark G. Turner
Aerospace Engineering Dept.
745C Baldwin Hall
Cincinnati, OH 45221
mark.turner@uc.edu
(513)556-3222 UC voice
(513)556-5038 UC Fax

Project Description

UC is working with NASA on the design called the Tail Coned Thruster. The fan ingests the boundary layer from the fuselage to improve the propulsive efficiency. A test is planned at a NASA wind tunnel.

The student will work with other students on optimization of the propulsor and post process results. This will require using Linux, python, and using a CFD code. Prior experience in these areas (and others) is not required, and will be part of the training. Weekly teleconference meetings with NASA take place. The student will be expected to contribute to the material used in these discussions.

A desire to learn and be part of an exciting change in aviation is all that is needed.