

AIAD #10954

ORGANIZATION/PROJECT SPONSOR

Organization: ARL Vehicle Technology Directorate

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Location of Sponsoring Directorate or Division (City, State): Hampton, Virginia

PROJECT

Title: Rotorcraft Aeroelasticity

Description: The US Army Research Laboratory Vehicle Technology Directorate engages in rotor system research for conventional helicopters and tiltrotors at the Transonic Dynamics Tunnel (TDT) facility at NASA Langley Research Center. Work in this project area varies depending upon the requirements at the time. Examples of work include finite element modeling of rotorcraft components, bench or wind-tunnel testing of model systems, and the development of data acquisition techniques.

ARL/Army Benefit: The development of advanced rotorcraft systems provides the warfighter with superior technology. The Vehicle Technology Directorate pursues the development of actively controlled rotor systems and advanced rotor systems to improve vehicle performance, stability, minimize vibratory loads and noise, reduce maintenance costs, and improve system reliability.

Background Required: No specific skills are required, however, an interest in rotorcraft is a plus.

Security clearance required: What level of clearance is required (None, Secret, or Top Secret)? None

Capacity: 1

Duration: (3 or 4 weeks) 4 weeks

Block Preference: Please specify what timeframes DO NOT WORK for the organization (23 May – 8 August): Generally, any timeframe can be made to work, however, at this time July would be the best month for cadets to work with us as we will be engaged in a wind-tunnel test of an active rotor system.