

2018 NORTH CAROLINA SPACE GRANT CONSORTIUM

AIRCRAFT READINESS ENGINEERING WORKSHOP

AT CRAVEN COMMUNITY COLLEGE IN HAVELOCK, NC MAY 20-25, 2018

IN COLLABORATION WITH NC STATE UNIVERSITY AND FLEET READINESS CENTER-EAST



Experience working directly with Department of Defense engineers from the Navy's Fleet Readiness Center-East Facility and discover the exciting world of supporting military aviation. Activities include:

- Hands-on exposure to topics such as Mishap Investigation, Power and Propulsion, Air Frames, and Composite Repairs
- Interactive squadron/flight line tour of military VTOL aircraft and simulators*
- Exploration of Navy/Marine Corps Aircraft such as, V-22 Osprey, H-53 Heavy Lift Helo, AH-1 Cobra, and AV-8 Harrier Jump Jet
- RC build and fly competition



Registration Cost: \$1,300

Workshop Registration Includes*:

- Room, meals, and transportation to/from New Bern airport
- Workshop learning materials
- Aircraft Readiness Workshop T-shirt

"It [the workshop] has opened my eyes to the aerospace world which I would not have even considered beforehand. The experience was truly life changing and has potentially opened a few doorways with a future in aerospace or something related."

"It gave me a refreshing taste of what it's like to be around really passionate engineers who are genuinely interested in the work they do and the purpose they serve"

"The tours this week have been mind blowing"

Previous Participants

*All schedules are subject to possible changes.

Application Requirements:

- Must be age 18 or over
- Must have completed 1 year of college (university or community college level)
Mechanical and Aerospace Engineering, Aviation majors preferred
- Must be a US Citizen

To apply, go to:

<http://ncspacegrant.org/2018workshop> by March 16, 2018

Tuition and transportation assistance may be available through your local [Space Grant Consortium](#). Contact your state's Space Grant to inquire.

NC STATE



For more information please go to <http://ncspacegrant.org/2018workshop> or email Jobi Cook (jobi_cook@ncsu.edu) or Susan Lloyd (slprice@ncsu.edu)

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Sunday

Arrival Day, Meet and Greet, RC Helicopter/Car Activity
(Students will fly RC aircraft/cars, indoors/outdoors)

Monday

Introduction to Military Aircraft Readiness, Overview tour of NAVAIR Facilities,
Personal accounts of engineering's role in readiness, RC Aircraft Design &
Construction Techniques
(Student teams will be instructed on the design and building of RC aircraft)

Tuesday

Mishap Investigation, Airframe Testing Methods, Aircraft Structures
(Students will build a Remote Control Aircraft)

Wednesday

Travel to Air Station, Air Vehicle Performance and Maintenance, VTOL
Squadron/Flight Line Tour (Interactive tour of military VTOL aircraft with
Active Duty Personnel and DOD Engineers), Pilot Q&A, RC Design and
Construction
Student interaction with a military simulator*

Thursday

Power/Propulsion, Aircraft Avionics
(RC Construction and testing)
UAV Flight Demonstration (Multi-copters)

Friday

Operations Sustainment
Student RC Flight Competition
(Student built aircraft will be flown in live Dog Fight),
Semi-Formal Awards Celebration Ceremony

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