

Opportunity Title: Polymer matrix composite manufacture and mechanical test

Opportunity Reference Code: 0032-NPP-NOV23-GRC-TechDev

**Organization** National Aeronautics and Space Administration (NASA)

Reference Code 0032-NPP-NOV23-GRC-TechDev

Application Deadline 11/1/2023 6:00:59 PM Eastern Time Zone

**Description** Thermoplastic composites have gained considerable attention for aeronautic and aerospace structural applications. Of specific interest to this project is the manufacture and testing of TuFF (Tailored Universal Feedstock for Forming) composites, which are novel materials composed of highly aligned, short carbon fibers throughout a thermoplastic matrix. NASA GRC is in need of a post-doctoral fellow to assist primarily with conducting research into the mechanical properties of TuFF composite coupons and analysis of the data generated. The applicant will have experience with polymer matrix composite materials, failure modes, coupon preparation and conditioning, ASTM standard test methods and equipment maintenance/trouble shooting. Research will also involve measuring temperature changes during mechanical and impact tests using a state-ofart high speed infra-red camera. It is expected that the candidate will publish research results in conference proceedings and refereed journals. Experience in composite manufacturing would be beneficial.

Location:

Glenn Research Center Cleveland, Ohio

Field of Science: Technology Development

Advisors:

Mark David Kankam mark.d.kankam@nasa.gov (216) 433-6143

Eligibility

• Citizenship: LPR or U.S. Citizen

Requirements • Degree: Doctoral Degree.



## ORAU Pathfinder



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the **ORAU** Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder 2



Generated: 8/28/2024 6:18:36 AM