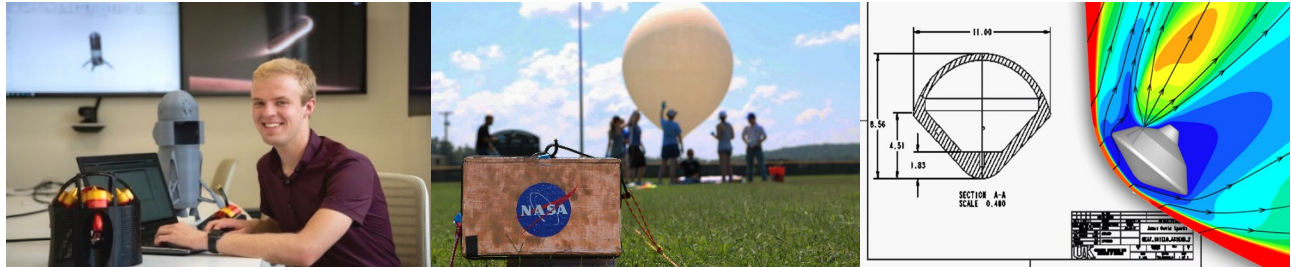


# KENTUCKY

## NASA SPACE GRANT PROGRAM NASA EPSCoR PROGRAM



### Support for KY College Students



Left: Tyler Nichols (UK) recognized among NASA top interns; Middle: Scientific ballooning teams are active across KY; Right: UK-designed hypersonic re-entry capsule; Below: NASA Aeromechanics intern Lauren Wagner (WKU)

## KY SPACE GRANT CONSORTIUM

### Workforce training in partnership with NASA

- Aerospace opportunities for KY students
- Internships and NASA team competitions
- Students and faculty can work with NASA missions and research at colleges in KY



### Team Projects & Workforce Training

**KY State University**  
Pre-college STEM (right)

**University of Louisville**  
Zero-G flight (below)

**Owensboro (OCTC)**  
Advanced Manufacturing  
NASA Rover Team  
(below middle)



**Aviation Museum KY**  
Flight education (left)

**Challenger Center Paducah / WKCTC**  
KY teachers at NASA  
Marshall Spaceflight  
Center (below)



KCTCS Asbury University Bellarmine University Berea College Centre College Thomas More University  
Aviation Museum of KY Challenger Centers of KY KY FIRST Robotics KY Science Center Living Arts & Science Center

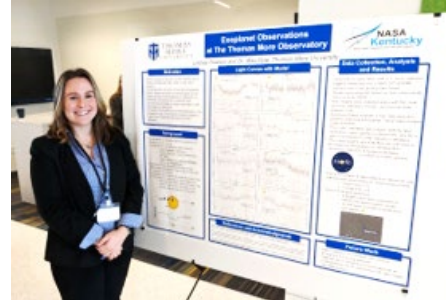
## KY NASA EPSCoR PROGRAM

### University research in partnership with NASA

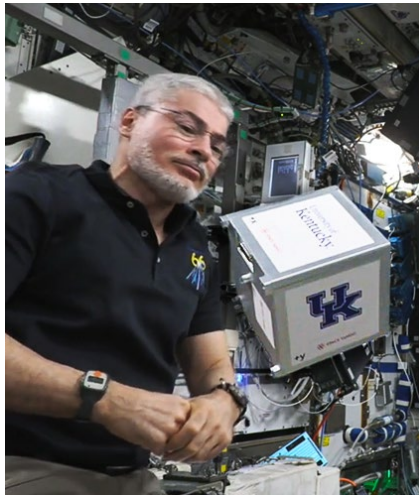
**KY: 8** All 8 KY public universities have conducted NASA-related research supported by this program

**NASA: 9** KY faculty have collaborated with 9 NASA Centers including KSC, JSC, JPL

**\$10:\$1** Approximate ROI for seed research grants from this program for follow-on funding with NASA, NSF, NIH, DoE, DHS, DoD, DARPA



Lindsay Dawson (TMU) of Union, KY presented her work on exoplanet observations at a national conference



### Primary KY Aerospace Research Areas

- Hypersonics & Thermal Protection Systems
- Heliophysics & Space Weather
- Satellite Technologies
- Materials Science
- Remote Sensing

**April 2024:** Three KY universities (UK, UofL, WKU) each in Space for 3 separate research missions

### Program Impact

#### Success for KY Higher Education:

- Increased KY research funding
- Graduate programs in aerospace and space science in KY
- New faculty in aerospace fields
- ISS Innovation Award
- NASA Space Tech Fellowship
- NSF Graduate Fellowship
- Astronaut Scholars
- NASA Internships
- Publications
- Honors for KY researchers
- Contributions to national and state science priorities
- Contributions to NASA Artemis lunar program

**29**

KY partner organizations

**6,500**

KY participants annually

**52**

partners in the NASA Space Grant national network



Asa O'Neal (UK) from West Liberty, KY interned at NASA JPL

NASA Kentucky Space Grant Consortium and EPSCoR Programs  
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Hosted by UK Department of Mechanical & Aerospace Engineering