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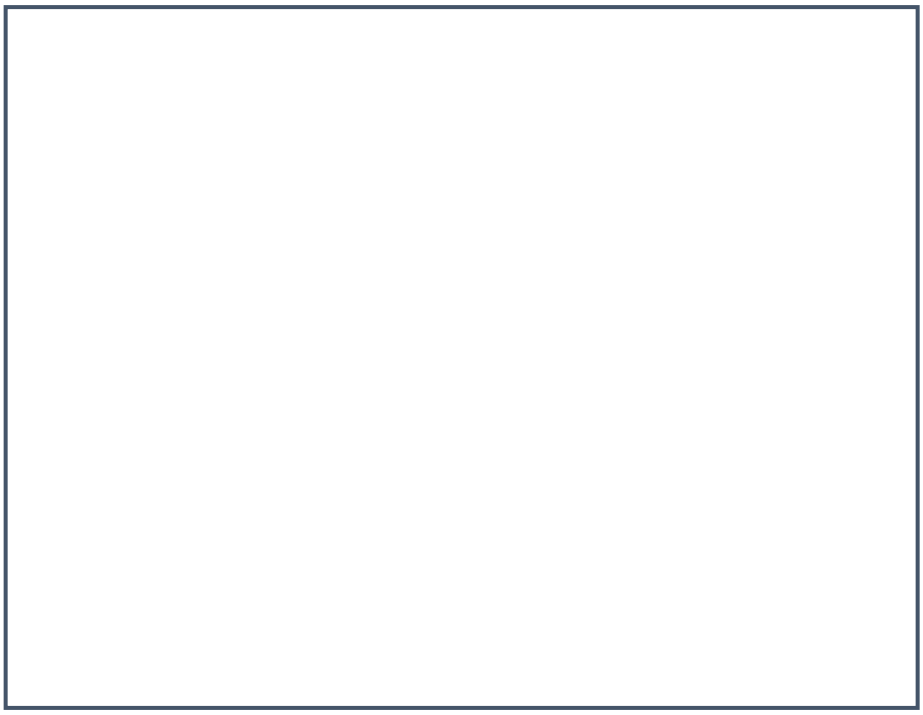

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NASA Marshall Faculty Fellowship Program

Program Description

- The Marshall Faculty Fellowship program is a residential research experience. Fellows are required to conduct their research, during the ten-week program, on-site at the Marshall Space Flight Center.
- Participants cannot receive remuneration from other entities or other programs or other university or government sources during the Faculty Fellowship 10-week period.
- An oral presentation by the Fellow to the Marshall group with which s/he has been affiliated is required, near the end of the fellowship period.
- A written final report is required at the end of the Fellowship.
- A written evaluation of the program by the Fellow is expected at the end of the Fellowship.

Eligibility

- US citizen
- Full time teaching or research appointment at accredited US university or college.
- Fellowship is awarded for one summer period, but Fellow may apply again for a second year.
- Women, under-represented minorities, and persons, with disabilities are encouraged to apply.

Selection

The applications selected to be Faculty Fellows will be chosen by the Marshall group which has been assigned the area of investigation (concentration) chosen by the applicant.

Marshall Collaborator

A Marshall Collaborator will be identified to serve as the co-investigator and day-to-day contact. Near the end of the ten-week period, the Faculty Fellow and the Marshall Collaborator will prepare a white paper summarizing the summer effort, including results and recommending follow-up work.

Compensation

Stipends for Faculty Fellows are set as follows for the 10-week period:

Assistant Professors and Research Faculty	$15,000
Associate Professors	$17,000
Professors	$19,000

A relocation allowance of $1,500 will be provided to fellows who live more than fifty miles from the Marshall Center.

A travel supplement of $500 will be provided to those fellows receiving the relocation allowance.

Website : https://www.uah.edu/asgc/applications/marshall-faculty-fellowship

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Space Transportation

- Mission and Architecture Analysis
- In-Space Advanced Manufacturing
- Digital Manufacturing Technologies
- Space Environmental Effects and Space Weather
- Lander Systems and Technologies
- Small Spacecraft and Enabling Technologies (Nanolaunch Systems)
- 3D Printing/Additive Manufacturing/Rapid Prototyping
- Meteoroid Environment
- Friction Stir and Ultrasonic Welding
- Advanced Closed-Loop Life Support Systems
- Composites and Composites Manufacturing
- Wireless Systems
- Ionic Liquids
- Guidance, Navigation and Control (Autonomous, Small Launch Vehicle)
- Vehicle and Systems Health Management
- Martian Navigation Architecture/Systems
- Planetary Environment Modeling
- Autonomous Systems (reconfiguration, Mission Planning)
- Digital Thread / Product Lifecycle Management (for AM and/or Composites)
- Material Failure Diagnostics

Science

- Replicated Optics
- Large Optics (IR, visible, UV, X-Ray)
- High Energy Astrophysics (X-Ray, Gamma Ray, Cosmic Ray)
- Radiation Mitigation/Shielding
- Gravitational Waves and their Electromagnetic Counterparts
- Solar, Magnetospheric and Ionospheric Physics
- Causes of Space Weather
- Planetary Geology and Seismology
- Planetary Dust, Space Physics and Remote Sensing
- Surface, Atmospheres and Interior of Planetary Bodies
- Lunar Surface Science
- Earth Science Applications
- Convective and Severe Storms Research
- Lightning Research
- Data Informatics
- Disaster Monitoring
- Energy and Water Cycle Research
- Remote Sensing of Precipitation
- Lightweight Sensors for Aircraft and CubeSats