CELESTIAL DYNAMICIST

July 19, 2017 -- Anonymous (not verified) **Department:**
City: Huntsville
State/Province: AL
Category: Space Physics
Atmospheres
Observation
Meteoritics
Missions
Country: USA
Contact Person: Nancy Bates
Institution: Jacobs Technology
Application Due Date: Sunday, August 20, 2017
Web Link: https://jacobs.taleo.net/careersection/ex/jobdetail.ftl?job=AS0001NF [1]

CELESTIAL DYNAMICIST

OVERVIEW:

As a CELESTIAL DYNAMICIST the selected candidate will support the Meteoroid Environment Office (MEO) [2] within the Natural Environments Branch at NASA Marshall Space Flight Center (MSFC). The selected candidate will work to improve NASA's knowledge of the meteoroid environment, particularly with regard to those particles posing a hazard to spacecraft.

Duties may include the following:

- Assisting in the development and improvement of meteoroid environment models throughout the Solar System
- Analyzing the data obtained from visual observers, meteor camera networks, telescopic instrumentation, and in-situ measurements to derive quantities (speeds, fluxes, masses, densities, etc.) pertinent to the development of meteor models
- Developing supplemental models to support the MEO's main products (the Meteoroid Engineering Model and meteor shower forecasts)
- Tracking meteor events and updating the US Government and public on the circumstances surrounding these events

QUALIFICATIONS:

- At least a BS degree from an ABET accredited institution in Astronomy or Physics or a related field with a minimum of 6 years' experience in dynamical astronomy, or a PhD in Astronomy or Physics meeting the publication requirement
- Must have published papers (as first author) on solar system dynamics in peer-reviewed astronomical journals such as Icarus, Earth, Moon, and Planets, the Astronomical Journal, or the Monthly Notices of the Royal Astronomical Society
- Ability to write effectively without assistance
- Expertise in one or more computer languages, preferably Python or the C family
- A strong, demonstrated math background

- The ability to be proactive and complete tasks with minimal direction
- The ability to be flexible in easily transitioning between work assignments

- Proof of U.S. Citizenship

DESIRED:

- PhD or equivalent degree/experience in Astronomy or Physics with a specialty in Solar System dynamics or small body dynamics
- Ability in 2 or more computer languages

Proof of U.S. Citizenship required for this position.

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Position Type: Scientific/Technical Staff
Contact Email: nancy.bates@nasa.gov [8]

Footer

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Links:
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