

Postdoc in Asteroseismology, Rotation, and Magnetic Activity



The Space Science Institute (SSI) in Boulder, Colorado invites applications for a Postdoctoral Research Associate to work with Senior Research Scientist Dr. Savita Mathur on the analysis of observational astronomical data collected by the Kepler, K2 and TESS missions to characterize the gravity, rotation, ages, and magnetism of solar-like stars and red giants.

The goal of this project is to derive the most accurate surface gravities, rotation periods, evolutionary states, and magnetic activity levels to characterize rotation-age-magnetic activity relationships and oscillations-magnetism interaction. The successful candidate will be an observational astronomer responsible for analyzing data from Kepler, K2 and possibly TESS and will work in collaboration with Prof. Marc Pinsonneault (Ohio State University), Dr. Jennifer van Saders (Carnegie Observatory), and Dr. Rafael A. García (CEA Saclay, France) through a NASA ADAP grant awarded to SSI in 2017. More information about SSI can be found here: <http://www.space-science.org/>

Knowledge/Education: A Ph.D. in astrophysics or related fields is required prior to the start date of the position. Experience in observational asteroseismology, data analysis to study surface rotation, differential rotation, and magnetic activity from photometric data are essential. Applicants should have published research results in peer-reviewed high-quality journals and demonstrated very good communication skills and the ability to work independently. Computer skills are required including experience with IDL, Python and MATLAB. Experience with Kepler data is also desirable.

The initial appointment will be for 2 years, renewable up to a total of 3 years contingent upon satisfactory performance and continued availability of funds. The desired starting date is October, 11 2017. Position is open to applicants within the US and abroad. The position will be located at SSI headquarters in Boulder, CO.

This is a full-time position with benefits. Salary is \$60,000 per year, commensurate with experience, with the possibility of increase in subsequent years. Benefits include health, dental, vision, and (after 1 year of service) 403(b) retirement plan. In addition to competitive salary and benefits, there will be a budget for travel expenses for the successful applicant to attend conferences and make research visits. Position, salary, benefits, and travel budget are dependent upon availability of grant funding.

To Apply: Please send your application to ssihr@space-science.org, **attn. Dr. Savita Mathur**, including:

- CV with bibliography,
- statement of research,
- 2 to 3 reference letters to be sent directly from the referees to the above e-mail address.

Please note: The Space Science Institute is a non-profit, public benefit corporation and operates as an equal opportunity employer. This job description is general in nature and is not designed to contain or to be interpreted as a comprehensive inventory of all duties, responsibilities and qualifications of the position.