

Postdoc position in Chicago

Wednesday 14 July 2021 12:00 (1 minute)

Post-Doctoral Research Associate –Lightning Observation

Location: Loyola University Chicago, Chicago U.S.A.

Department: Physics Department

Pending Approval, review of Applications will continue until the position is filled.

Expected Start Date: Sep 1, 2021 or As soon as the position is filled.

Duties: Prof. Abbasi is recruiting a Post-Doctoral Research Associate to specialize in lightning research, observations, and applications. The selected applicant will work closely with Prof. Abbasi and the Telescope Array collaboration on observing the optical emission from Terrestrial Gamma-ray Flashes (TGFs) using a high-speed video camera and a photometer system. The selected applicant will also work closely with the Physics Department at Loyola University Chicago on teaching classes during the spring semester of their appointment. Thus, this position will allow the Post-Doctoral Research Associate the unique opportunity to develop both their research and teaching skills. The main responsibilities would be 1) analyzing the collected data from the high-speed video camera and the photometers in correlation with the TGFs observed by the Telescope Array Surface Detector (TASD) and lightning observed by the (INTerFerometer) INTF at the TASD site. 2) Maintaining and collecting data from the optical instruments at the TASD site. 3) simulation of the optical component of TGFs and lightning. 4) Teaching undergraduate classes and labs. This position will require the presentation and publication of research findings at scientific conferences and in academic journals. This position also requires travel to Utah multiple times a year.

Qualifications:

Applicants should have a Ph.D. in physics. This position requires familiarity with lightning observations and TGFs, along with fluency in at least one programming language (e.g., Python, C++, Java). Preference will be given to applicants with knowledge of high-speed video camera and photometer observations.

To Apply:

Interested candidates should send a CV, official or unofficial transcripts, a list of at least 3 professional references, and a cover letter explaining how your qualifications meet the requirements for this position to rabbasi@luc.edu.

Type of post

PostDoc

Primary author: Prof. ABBASI, Rasha (Loyola University Chicago)

Session Classification: Offering a position

Track Classification: Scientific Field: CRI | Cosmic Ray Indirect