Available Postdoc Position

RUA

Position ID Number	100015
Supervisor Name	Space Sciences Laboratory
Supervisor Title	Laboratory
Phone Number	
Supervisor Email	cgarrie@gmail.com
Lab Website	https://gaps1.astro.ucla.edu/gaps/
Affiliated Institution	UC Berkeley
Contact Name	Caylen Garrie
Contact Title	HR Business Partner
Contact Email Address	cgarrie@gmail.com
Contact Phone Number	18583345350
Date of Best Consideration	12/31/21
Application Close Date	12/31/21
Anticipated Start Date	1/19/22
Job Website	
Job Location	Berkeley
Is remote work possible?	No
CIP Codes	3.2 Astronomy and Astrophysics

Job Description	Built six decades ago, UC Berkeley's Space Sciences Laboratory (SSL) was the realization of NASA's vision to gather many of the most innovative and dedicated science minds in one place at Berkeley. In the hill above Berkeley, physicists, researchers, biologists, engineers and technicians worked in unison: interacting, learning from one another, leading, challenging and inspiring one another in creating cutting-edge space science instrumentation and conducting top research. Through sixty years of NASA-funded support, their efforts, and those of hundreds of dedicated students and staff, have brought about myriad highlights, such as the space science missions of S3-3, ISEE, Polar, Van Allen Probes, Cluster, IMAGE, THEMIS and MAVEN. All have contributed to new discoveries about the physics of space, and initiated marked new advances in engineering technology. The General Antiparticle Spectrometer (GAPS) is a NASA funded high altitude balloon mission, designed to detect antinuclei (antiprotons, antideuterons, and antihelium) in cosmic rays with high sensitivity, as messengers of dark matter processes in the galaxy. We are searching for a Postdoctoral Scholar with strong instrumentation experience who will join us as we prepare our payload for an Antarctic high-altitude balloon flight. The instrument includes several technologies such as silicon radiation detectors, custom electronics, thermal systems, monitoring sensors and computers. We are interested in someone who is self-motivated and proactive in a laboratory setting. You will be working closely with our experienced team of engineers at the Space Sciences Laboratory and the larger GAPS collaboration. Key job duties include: Participating in our international science collaboration by giving presentations on video conferences and collaboration meetings, Preparing papers for publication, Instrument and payload mechanical, electrical and software integration, Instrument calibration, Functional and environmental (thermal/vacuum) testing, Participation in integration and launch campaigns, Operating the payload and instrument in flight.
Required Qualifications	Basic qualifications(required at time of application) PhD (or equivalent international degree) or enrolled in a PhD (or equivalent international degree) program Additional qualifications(required at time of start) PhD (or equivalent international degree) No more than three years of post-degree research experience
Desired Qualifications	PhD (or equivalent international degree) in physics or astrophysics, Experience with radiation detection (semiconductor and scintillator detectors), Experience with electronics design, operation and/or debugging, Experience with instruments in space or harsh environments and/or delicate systems, Experience with writing, maintaining, and collaborating on software
Minimum Monthly Salary	$0
Maximum Monthly Salary	$0

Special Instructions for Applicants	Curriculum Vitae, Cover Letter (optional), Statement of Research, Statement on Contributions to Advancing Diversity, Equity, and Inclusion (Optional), Publication List (Optional), 1-3 letters of reference, Application link - https://aprecruit.berkeley.edu/JPF03253
Opportunities for teaching?	No
Opportunities for supervision/mentoring?	No
Opportunities for communitiy outreach?	Yes
Position keywords	particle physics high altitude balloon mission