



## Postdoctoral Position in Neutrino Physics

The Weak Interactions/Astrophysics Team in Physics Division (P-23) at Los Alamos National Laboratory is inviting applicants for a possible post-doctoral appointment working on a search for double beta decay; a rare nuclear decay that can provide insight into the particle-antiparticle nature of the neutrino and the absolute mass scale of the neutrino. The successful candidate will contribute to the Team's efforts on the MAJORANA and LEGEND double-beta decay experiments. The Team is focused on analyzing MAJORANA data from an array of Ge detectors at the Sanford Underground Research Facility; and preparing for the LEGEND experiment, a next generation double-beta decay experiment with initial experimental efforts at Gran Sasso. Within program funding constraints, the possibility also exists to participate in future research efforts in Dark Matter and neutrino oscillations.

**Required Skills:** The successful candidate must have an experimental background in one or more of the following areas: Nuclear physics, particle physics, simulation and analysis of nuclear-particle physics experiments, low background counting, data acquisition. Ability for significant travel to the experimental site is a necessity.

**Desired Skills:** Skills in the following areas are desired for the successful candidate: experience with fielding experiments at underground facilities, strong publishing record, demonstrated written and oral communication skills in English, familiarity with cryogenic systems, familiarity with germanium detectors, prior experience with weak interaction measurements.

**Education:** A Ph.D. in nuclear or particle physics completed within the last five years is required at or near the time of hiring.

**Notes To Applicants:** For further technical information, please contact Dr. Steve Elliott at [elliotts@lanl.gov](mailto:elliotts@lanl.gov) or (505) 665-0068 or Dr. Ralph Massarczyk at [massarczyk@lanl.gov](mailto:massarczyk@lanl.gov) or (505) 665-6710. One should apply at:

[https://jobszp1.lanl.gov/OA\\_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&OAHP=IRC\\_EXT\\_SITE\\_VISITOR\\_APPL&OASF=IRC\\_VIS\\_VAC\\_DISPLAY&akRegionApplicationId=821&transactionid=17941769&retainAM=N&addBreadCrumb=RP&p\\_svid=67761&p\\_spid=3119330&oapc=87&oas=magfZ88Y38TmM4K24EiYuQ..](https://jobszp1.lanl.gov/OA_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&OAHP=IRC_EXT_SITE_VISITOR_APPL&OASF=IRC_VIS_VAC_DISPLAY&akRegionApplicationId=821&transactionid=17941769&retainAM=N&addBreadCrumb=RP&p_svid=67761&p_spid=3119330&oapc=87&oas=magfZ88Y38TmM4K24EiYuQ..)

One can also access the LANL jobs web page (<https://jobs.lanl.gov>) and follow the link for PostDoc opportunities. The vacancy name is IRC67761. Please submit a cover letter addressing how you meet the required skills, a C.V. and the names of 3 references. A current C.V. with the following categories is preferred: Educational background, degree dates, GPA with scale; Experience; Competitive honors; Relevant extracurricular activities; Invited presentations; Grants; Patents; Publications.

Candidates may be considered for a Director's Fellowship and outstanding candidates may be considered for the prestigious Marie Curie, J. Robert Oppenheimer, Richard P. Feynman or Frederick Reines Fellowships.

Evaluation of applications will commence immediately and continue until the position is filled.

**Equal Opportunity:** Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regards to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to [applyhelp@lanl.gov](mailto:applyhelp@lanl.gov) or call 1-505-665-4444 option 1.