

LBNE Project Scientist

The Long Baseline Neutrino Experiment (LBNE) Project seeks an experienced experimental physicist to serve as Project Scientist. The LBNE Project will build an experimental facility for precision measurements of neutrino oscillation phenomena, as well as other physics, enabled by its large underground detector. It will construct a new neutrino beam and near detector complex on the Fermilab site, and a very large detector more than 1000 km away. Fermilab has management responsibility for the project, and is supported by the international LBNE Collaboration including other national laboratories and universities.

The Project Scientist will provide scientific leadership for the LBNE Project, and represent the LBNE Project in interactions regarding scientific matters with the LBNE Collaboration, external reviews, Fermilab management, management of other participating laboratories and universities, and the Department of Energy and other funding agencies. He or she will establish, jointly with the LBNE Collaboration, the scientific goals and priorities for the LBNE Project; ensure that the technical design of the LBNE Project is capable of meeting the approved scientific goals of the LBNE Experiment; and serve as senior scientific advisor to the LBNE Project Manager.

Applicants should have the following qualifications:

- Acknowledged expertise in neutrino oscillation physics. Knowledge and experience with non-accelerator physics enabled by LBNE, including proton decay, atmospheric neutrinos and astrophysical neutrinos is desirable.
- Sufficiently experienced to provide independent scientific assessments and evaluations in the face of competing opinions.
- Knowledge and experience with relevant detector and neutrino beam technologies.
- Experience leading significant experimental programs and/or teams.
- Open to consideration of different technological approaches to achieve the scientific goals.

Appointment Conditions

The LBNE Project Scientist will retain her/his existing appointment at her/his current institution and will not be hired as a Fermilab employee. The Project Office is headquartered at Fermilab, therefore he/she is expected to spend a substantial fraction of time at Fermilab. Reimbursement may be provided to her/his home institution for part or all of her/his salary for the duration of the appointment as Project Scientist. The initial term of the appointment is two years, renewable by mutual agreement between the Project Scientist and the Project Manager. Candidates need not be current members of the LBNE Collaboration; however the successful candidate would naturally join the collaboration if he/she is not already a member.

The Project Scientist will be appointed by the LBNE Project Manager, with the concurrence of the Fermilab Director and the LBNE Collaboration, and will report to the Project Manager.

Application Process

Candidates with relevant experience and qualifications are invited to submit their curriculum vitae, a publication list and a description of their most relevant achievements. Names of at least three references should also be included.

Applications should be sent to James Strait, LBNE Project Manager, strait@fnal.gov, and should arrive no later than September 30, 2011. Applications will be treated in strict confidence, and only applicants being seriously considered for this position will be contacted.

Applications will be considered on an Equal Opportunity basis M/F/D/V.