

Research Associates

The Accelerator Physics Center (APC) is seeking strong candidates for Research Associate positions. Fermilab's APC is responsible for coordinating and/or providing support for all accelerator R&D at Fermilab including activities aimed at improvements to the existing complex, next-generation accelerator facilities, and advanced accelerator R&D for the long-term future. Main areas of the APC research are Muon Collider and Neutrino Factory R&D; High Intensity Neutrino Source; Beam Physics in Project-X, ILC and at the LHC; Theory and Simulations; Advanced Accelerator R&D. Appointments are typically for three years with one year renewals possible thereafter.

Postdoctoral research associates may participate in the full range activities of the Fermilab Accelerator Physics Center including mathematical modeling of new and existing accelerator facilities, design, commissioning and operation of beam facilities, performance and analysis of beam physics experiments, design of new accelerator components, and research on new concepts and methods of beam acceleration.

Principal Responsibilities

- Participate on scientific teams to carry out research on the relations between space, time, matter, and energy in the areas of detectors and electronics, accelerator technology, computing techniques, ES&H documentation, and/or other technical procedures and functions related to the mission of the Laboratory
- Apply established scientific methods and technology to well-defined, moderately difficult projects to achieve Laboratory goals
- Select and make minor adaptations to procedures and accepted practices
- Participate in Laboratory and University collaborations
- Develop, present, defend, and complete paper on research projects

Demonstrated ability to carry out independent research and Ph.D. in Physics or relevant subject are required. Preference will be given to applicants seeking their first long-term postdoctoral appointment, but applicants with previous postdoctoral experience will also be considered.

Applications and requests for information should be addressed to Dr. Vladimir Shiltsev shiltsev@fnal.gov. Applications should include a curriculum vitae, publication list, research statement, and three letters of reference.



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