

Faculty Position in Experimental Particle Physics

Position No. 52906. The Department of Physics at Southern Methodist University in Dallas invites applications for an open rank faculty position in Experimental Particle Physics. The appointment is expected to start in August 2024.

Southern Methodist University is a research intensive, private liberal arts university centrally located in the vibrant Dallas – Fort Worth metropolitan area. The current experimental program in the department is concentrated in the fields of particle physics and astrophysics. The particle physics program includes ATLAS at the LHC, NOvA and ICARUS at Fermilab, and development of readout and trigger electronics for collider experiments. The theory program is concentrated on the collider phenomenology and on theoretical astrophysics and cosmology. Applicants for the position must have a PhD degree, postdoctoral experience and a record of research excellence.

Within the ATLAS Collaboration at the LHC, the department of physics at SMU is heavily involved in physics involving the Higgs boson, including studies of Higgs couplings and CP properties, the search for di-Higgs production and the search for the effects of physics beyond the Standard Model. The department has an outstanding and well-equipped optoelectronics laboratory and a firmware lab specializing in detector readout electronics. The university also provides competitive high performance computing resources for data science and AI/ML applications, including an NVIDIA SuperPOD.

A successful applicant is expected to take a leadership position in the experimental particle physics program at SMU, as well as within the wider particle physics community. Comprehensive professional experience and vision for the future of particle physics are viewed as strong points. We especially encourage candidates who are currently active in an LHC experiment, and who have the ability to leverage the substantial aforementioned resources available at SMU for groundbreaking research. The successful candidate is expected to be successful in teaching at the undergraduate and graduate levels.

We believe that equity and inclusion are essential components of our success as teachers and scholars. We seek colleagues who embrace SMU's central values of intellectual diversity and academic freedom. Interested candidates should forward a curriculum vitae, statement of research and teaching interests and three letters of recommendation to <http://apply.interfolio.com/133083>. Review of applications will begin October 27, 2023. The deadline for full consideration is November 15, 2023, but the committee will continue to accept applications until the position is filled. The committee will notify applicants of its employment decision after the position is filled. Hiring is contingent upon the satisfactory completion of the background check. Questions or inquiries may be directed to the search chair, Dr. Ryszard Stroynowski (ryszard@physics.smu.edu).

SMU is a nationally-ranked, private, non-sectarian research institution located in one of the nation's fastest growing metropolitan areas. Researchers are part of an inclusive and intellectually vibrant community of internationally recognized scholars across the humanities, social sciences, natural sciences, engineering, and business. SMU offers excellent benefits

including full same-sex domestic partner benefits. The City of Dallas is one of the nation's most cosmopolitan commercial and cultural centers, and the Dallas–Fort Worth metroplex is the fourth largest in the US. Dallas' quality of life is exceptional, with a relatively low cost of living and a variety of housing options. A full range of professional sports teams, music venues, a lively and innovative restaurant scene, and more make Dallas an extremely livable city. Explore SMU at <http://www.smu.edu>.

Southern Methodist University will not discriminate in any program or activity on the basis of race, color, religion, national origin, sex, age, disability, genetic information, veteran status, sexual orientation, or gender identity and expression. The Executive Director for Access and Equity/Title IX Coordinator is designated to handle inquiries regarding nondiscrimination policies and may be reached at the Perkins Administration Building, Room 204, 6425 Boaz Lane, Dallas, TX 75205, 214-768-3601, accessequity@smu.edu.