The Department of Physics at the University of Wisconsin is hiring in the following five areas:

1) Quantum Information Experiment or Theory (PVL #100655): Assistant, Associate, or Full Professor. Ph.D. in Physics with a minimum of 3 years postdoctoral research experience in theoretical or experimental quantum information science. Candidate must possess extensive experience and be able to demonstrate a track record of innovation and world-class research accomplishments in theoretical or experimental quantum information science broadly interpreted as research in foundations and applications of quantum mechanical phenomena to information processing, computation, simulation, metrology, or sensing. The quantum information position will be part of the University-wide Quantum Cluster. To apply for this opportunity: https://jobs.hr.wisc.edu/cw/en-us/job/502951/assistant-associate-or-professor-of-quantum-science-and-engineering-cluster-hire

2) Ultrafast science exploiting X-ray free electron lasers (PVL #96139): Associate Professor or Full Professor. Ph.D. in Physics or closely related area required. Preference will be given to highly qualified applicants with research in the area of ultrafast science exploiting X-ray free electron lasers and related technologies to study physical phenomena. To apply for this opportunity: https://jobs.hr.wisc.edu/cw/en-us/job/499391/martin-l-perl-endowed-professor-of-physics

3) Particle Astrophysics Experiment (IceCube) (PVL #100536): Assistant Professor. Ph.D. in Physics, with specialization in experimental neutrino physics and astroparticle physics with a minimum of 3 years of postdoctoral research experience in experimental neutrino physics and astroparticle physics are required. UW-Madison is the home institution to the IceCube Neutrino Observatory. We are therefore seeking applications from outstanding experimentalists interested in using IceCube data to advance research in neutrino astronomy and neutrino physics. These positions will also provide the opportunity to participate in the construction of the IceCube Upgrade, now under way, and in the design of the next-generation detector. To apply for this opportunity: https://jobs.hr.wisc.edu/cw/en-us/job/502869/assistant-professor-of-physics

4) Computational Plasma Theory (PVL #100497): Assistant Professor. Ph.D. in Physics, with specialization in Plasma Physics and 3 years of postdoctoral research experience are required. The UW-Madison has highly ranked research programs in theoretical, computational, and experimental plasma physics and fusion research. The Physics Department seeks outstanding candidates with expertise in computational and theoretical plasma physics who will develop a leading research program in one or more areas of fusion, plasma astrophysics, space physics, and basic plasma physics. To apply for this opportunity: https://jobs.hr.wisc.edu/cw/en-us/job/502868/assistant-professor-of-physics

5) Computational/Theoretical Cosmology (PVL #100656): Assistant or Associate Professor. Ph.D. in Physics or Astrophysics or related field with a minimum of 2 years of postdoctoral research experience in theoretical cosmology related areas. We welcome all theoretical physics applicants who can take advantage of the anticipated unprecedentedly large influx of disparate, complex cosmological data to advance the frontiers of computational/theoretical cosmology. To apply for this opportunity: https://jobs.hr.wisc.edu/cw/en-us/job/502952/assistant-professor-of-physics

The successful candidates will be expected to perform teaching at all levels. Undergraduate and graduate classroom and individual instruction as well as supervision of graduate thesis research are required. Candidate will be expected to conduct high-impact scholarly research as well as provide service to the department, college, university and academic community nationally or internationally.

Senior candidates who demonstrate world-class research accomplishments as well as having teaching credentials which meet the requirements for tenure as determined by the Executive Committee of the Physical Sciences Division will be considered for appointment at the tenured level. The endowed Martin L. Perl professorship, which will provide up to one semester of teaching relief per academic year, will be awarded to a deserving candidate.

To ensure full consideration, please apply by December 1, 2019. However, the positions will remain open and applications may be considered until the positions are filled.