

Postdoctoral Fellow in Computational Plasma Physics at West Virginia University



The Department of Physics and Astronomy is seeking applicants for a Postdoctoral Fellow in computational plasma physics, with an emphasis on a collaboration with an in-house solar- and space-relevant laboratory plasma experiment. The ideal candidate will work with Profs. Paul Cassak, Weichao Tu, and Earl Scime to use an existing particle-in-cell code with boundary conditions representing the laboratory experiment to model magnetic reconnection in kinking flux ropes in the experiment, and to run test particle simulations with an existing code to study particle acceleration in electromagnetic fields in the experiment.

Minimum qualifications include a PhD in Physics, Plasma Physics, Space Physics, or related discipline and previous research experience in computational plasma physics (particle-in-cell simulation experience is preferred; test particle simulation experience is desirable). A full list of qualifications and instructions for how to apply for the position are available at https://wvu.taleo.net/careersection/wvu_research/jobdetail.ftl?job=18832. The application requires a cover letter including names and contact information of three references and a CV. Competitive salary and benefits are offered. Review of applications will begin Feb. 24, 2022, and continue until the position is filled. The preferred start date is immediate.

The WVU plasma/space group is described at <https://physics.wvu.edu/research/plasma-and-space-physics>. The department energetically supports diversity, equity, and inclusion (DEI) as described at <https://physics.wvu.edu/about/diversity-equity-and-inclusivity>. WVU is a comprehensive land grant university enrolling nearly 27,000 students on the main Morgantown campus. WVU's Carnegie Classification is R1 ("Doctoral Universities - Very High Research Activity"). Morgantown is centrally located and regularly makes "Best Place to Live" lists because of its good schools, excellent health care, low unemployment rate, low crime rate, and abundant recreational opportunities. The WVU Research Corporation is an AA/EOE/Minorities/Females/Vet/Disability/E-Verify Compliant Employer. To get questions answered about the position, please contact Paul Cassak (Paul.Cassak@mail.wvu.edu), Weichao Tu (wetu@mail.wvu.edu) or Earl Scime (Earl.Scime@mail.wvu.edu).



The PHase Space Mapping (PHASMA) experiment at WVU; measures distribution functions of both ions and electrons in a space-relevant plasma (e.g., Shi et al., Phys. Rev. Lett., 128, 025002, 2022)