

Postdoctoral opportunity at Swarthmore College at the SSX facility

The Department of Physics and Astronomy at Swarthmore College invites applications for a postdoctoral research associate position in the area of plasma physics on the Swarthmore Spheromak Experiment (SSX). Experimental work includes high velocity plasma acceleration, plasma turbulence, and spectroscopy. Experiments have relevance to magneto-inertial fusion, heliospheric physics, and fundamental turbulence. Work will include development and testing of pulsed power theta-pinch coils for plasma acceleration. Expertise in plasma spectroscopy diagnostics would be particularly desirable. This research is supported by the US-DOE Advanced Research Projects Agency-Energy (ARPA-E) under the newly-launched ALPHA project. Research on SSX offers the unique opportunity to do fundamental plasma physics in the setting of a top level undergraduate institution. Swarthmore is a highly selective liberal arts college with an enrollment of 1500 students from across the country. The Department of Physics and Astronomy includes 9 very active faculty members and graduates 15 to 20 majors each year. This project involves close collaboration with faculty at nearby Bryn Mawr College. Further information about the department and the SSX facility can be found at <http://www.swarthmore.edu/ssx-lab/>. Send curriculum vita and a list of references to **Prof. Michael Brown, Swarthmore College, Department of Physics and Astronomy, 500 College Avenue, Swarthmore, PA 19081-1397, doc@swarthmore.edu**. Swarthmore College is an Equal Opportunity/ Affirmative Action Employer. Women and minority candidates are encouraged to apply.