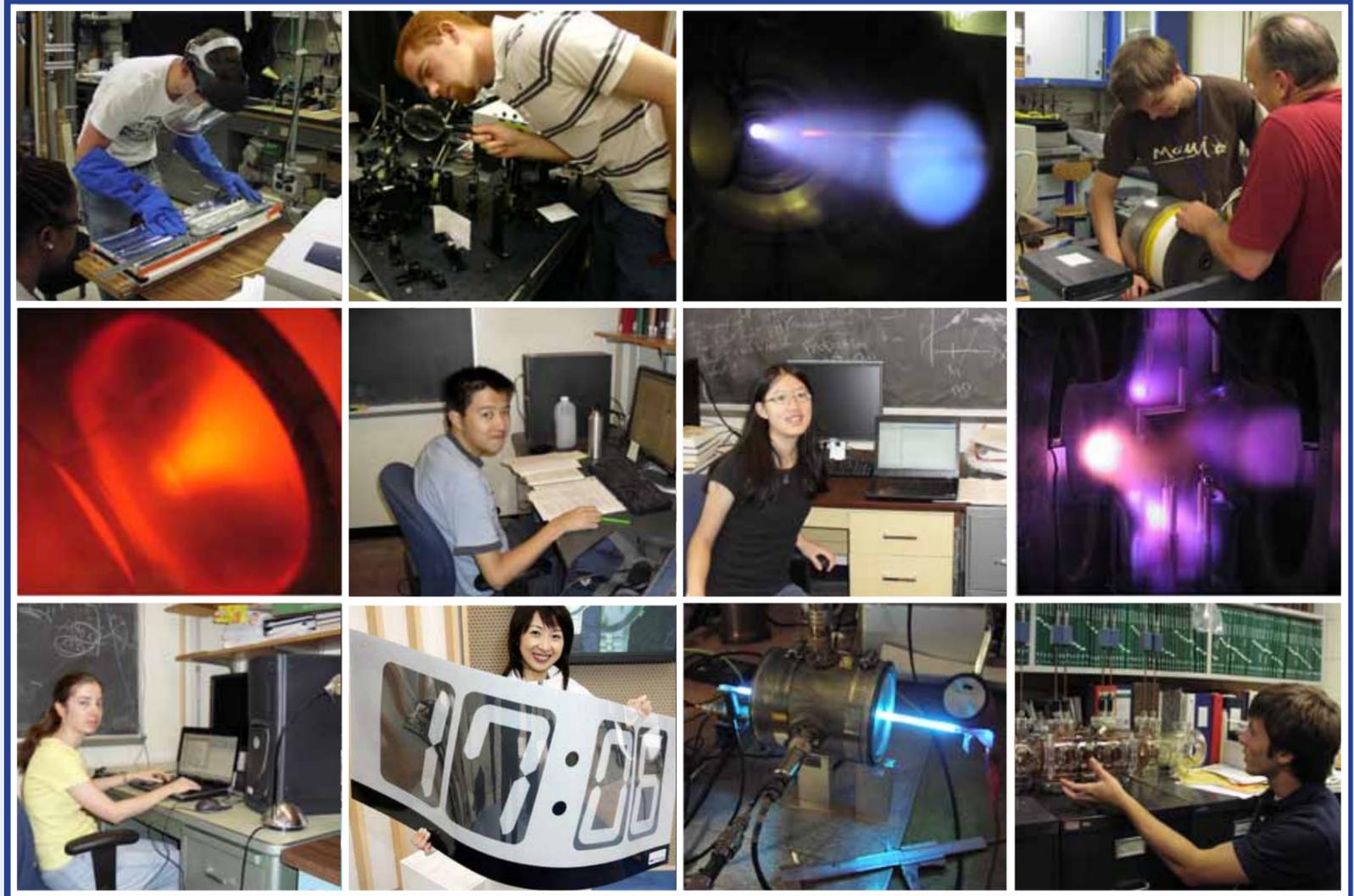


PROGRAM IN PLASMA SCIENCE & TECHNOLOGY

2011 Internship Program for Princeton Undergraduates



The Program in Plasma Science and Technology is pleased to announce an internship program for Princeton University undergraduates. Program funds are available to support a limited number of students working on plasma science and technology research under the guidance of members of the Executive Committee and PPPL research staff. An internship may be held during the summer months or the school year.

Studies of plasma science and technology meld several traditional specialties including fundamental physics research on plasmas, engineering studies of plasma interactions with materials, and the economic and social impact associated with plasma applications, especially fusion energy.

Plasmas are essential to many high-technology applications. One key example is fusion energy, for which the fuel is a high temperature plasma; fusion-oriented plasma physics experiments are conducted on major plasma confinement devices and on smaller, exploratory facilities. Gaseous lasers constitute another impor-

tant plasma application. X-ray laser research is prominent in the Program in Plasma Science and Technology. Lower-temperature plasmas are used for a growing number of materials fabrication processes including the etching of complex patterns for micro-electronic and micro-optical components and the deposition of magnetic, polymeric, and catalytic thin-films. Plasmas are important for illumination, microwave generation, chemical synthesis, spacecraft propulsion, and advanced-design accelerators for fundamental particle research.

Departments in the program are Astrophysical Sciences, Chemical Engineering, Chemistry, Electrical Engineering, Mechanical and Aerospace Engineering, and Physics. Research facilities and opportunities are at the Princeton Plasma Physics Laboratory, on the main campus, and at Imperial College, London. Applications for cross-disciplinary studies in history, economics, and political science are encouraged. For further information, contact a member of the Executive Committee.

To apply for an internship, e-mail a one-page letter describing your proposed work, a copy of your transcripts, and a letter-of-support from an Executive Committee member to: ppst@pppl.gov. Stipends are based on the standard university pay scale. Applications for summer internships are due 15 April 2011.

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