

## **Dusty Plasma Diagnostics Postdoctoral Position, Mechanical and Aerospace Engineering, Princeton University, Princeton, NJ, USA**

We are looking for recent PhD graduates with a background in plasma physics for a postdoctoral position in the field of dusty plasmas to develop and apply novel methods for real-time, in situ measurements of charge on dust particles in plasma. The research involves combined application of state-of-the-art diagnostic approaches using nanosecond pulsed lasers together with traditional plasma characterization methods (probe, microwave interferometry, spectroscopy) and supported by modeling efforts.

The position is with the Mechanical and Aerospace Engineering of the Princeton University. The candidate will join the research team comprising experts in experimental and theoretical plasma physics, students and technical personal from the Princeton University and the Princeton Plasma Physics Laboratory. It is anticipated that the candidate will establish and maintain a close scientific collaboration with the team members

### **Minimum requirements:**

- Ph.D. in physics or engineering with emphasis on plasma science, plasma and gas phase diagnostics
- Knowledge and experience in the construction and use of traditional plasma diagnostics (e.g., microwave interferometry, probes, optical emission and absorption spectroscopy) and laser-based diagnostics.

The postdoc position is offered for 2 year with the possibility of extension for one more year.

### **Contacts:**

Dr. Mikhail Shneider  
[shneyder@Princeton.EDU](mailto:shneyder@Princeton.EDU)

Drs. Yevgeny Raitses and Shurik Yatom  
[yraitses@pppl.gov](mailto:yraitses@pppl.gov) and [syatom@pppl.gov](mailto:syatom@pppl.gov)