Post-Doctoral Research Associate  
High-Contrast Imaging and Adaptive Optics  
Princeton University

Princeton University's Mechanical and Aerospace Engineering Department invites applications for a postdoctoral research associate position starting July, 2013 or later. A Ph.D. in Mechanical and Aerospace Engineering, Astronomy, Optics, Physics, Applied Physics, or a related area is required.

The position supports work in our laboratory for high-contrast imaging, under the direction of Professor Jeremy Kasdin, in collaboration with the Department of Astrophysical Sciences. The high-contrast imaging laboratory (HCIL) at Princeton works with NASA on the development of concepts for searching for, directly imaging, and characterizing extrasolar planets. We are looking for an excellent experimentalist with laboratory optics experience as well as knowledge of spacecraft systems and control. The successful candidate will be responsible for a significant upgrade to our laboratory testing the starshade concept for high-contrast imaging. This labs verifies the optical performance on subscale starshade models. The position will involve developing prototype instrumentation and integrating into the laboratory as well as developing sensing and control approaches for formation flying of the telescope occulter system. Appointments are for one year, renewable annually based on satisfactory performance and available funding, for a total of up to three years.

Applications will be accepted until the position is filled. Applicants should apply online at https://jobs.princeton.edu, requisition #xxx, and submit their vitae, including a list of publications and presentations, a summary of research accomplishments and interests, and contact information for at least three potential references.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.