University of Central Florida

Townes Laser Institute
CREOL, the College of Optics & Photonics

RESEARCH SCIENTIST IN EUV SOURCES AND APPLICATIONS

The Laser Plasma Laboratory (LPL) of the Townes Laser institute seeks candidates to fill a position open at the Scientist/Senior Scientist level in the field of EUV source development and applications. LPL has a long history in laser-plasma EUV source development for lithography, metrology and high-resolution microscopy. This has included the development of high-power, high rep-rate, low-debris tin-droplet laser plasma sources with kW-class solid state lasers. LPL is initiating a new program in this field, and is seeking an experienced scientist to take a leadership position in new experimental and theoretical research programs with both laser plasma and high harmonic generation (HHG) EUV sources. Ideally, candidates should have familiarity with both experimental and theoretical aspects of EUV laser plasma sources. Strong experience in the development of HHG sources is of lesser importance, the Townes Laser Institute already has a strong commitment in this area, but experimental experience in x-ray and EUV plasma diagnostics would be an advantage. The successful candidate will be expected to help develop new programs in this field and to identify future industrial needs, to lead a research team and mentor of graduate and undergraduate students.

LPL (www.lpl.creol.ucf.edu) is one of the largest university research groups in high power laser development and applications in the US, with a comprehensive inventory of ultrafast, solid state and fiber laser technologies, and a current complement of ~ 30 scientists, students and engineers. The Townes Laser institute is a new research center with an initial investment of ~ $10M in advanced laser development, with new initiatives in optical fiber fabrication, attoscience and ceramic laser materials underway, and additional programs planned in advanced laser manufacturing technologies, medical laser technologies and other advanced laser technologies (www.townes.ucf.edu).

Applicants for this position can apply by submitting their curriculum vitae and the names of three references through email to: Martin Richardson, Director, Townes Laser Institute, CREOL, College of Optics & Photonics, University of Central Florida, 4000 Central Florida Blvd, Orlando, FL 32816-2700, tel;(407) 823 6819, Email;mcr@creol.ucf.edu

UCF is an affirmative action employer. Women and minorities are encouraged to apply. As an agency of the State of Florida, UCF makes all application materials, including transcripts, available for public review upon request.