Postdoctoral Position in Ultrafast X-ray Science

A postdoctoral research position is available in the Atomic, Molecular and Optical Physics Group led by Linda Young at Argonne National Laboratory. We study nonlinear x-ray interactions with matter, ultrafast inner-shell dynamics in atoms and small molecules, and photoinduced dynamics in solution with x-ray probes – primarily making use of x-ray free-electron lasers and synchrotrons. In the next 2 years there is the opportunity to be the lead postdoc in two Argonne-led experiments at the LCLS on electron-hole dynamics in ionized liquid water, and, one at the European XFEL on resonant x-ray propagation through optically thick media. In addition, there is an opportunity to participate in the design and implementation of a high-repetition-rate optical pump/probe instrument to complement optical pump/x-ray probe schemes at Argonne. Please visit our website for more information and to meet the group: https://www.anl.gov/cse/atomic-molecular-and-optical-physics.

Some recent related publications are:

We seek a highly motivated individual with experience in ultrafast spectroscopic methods, excellent skills in conceiving and implementing experimental methods, analyzing and interpreting measurements and with the ability to communicate scientific information orally and in written publications. The successful candidate should be able to work independently on a daily basis and within interdisciplinary groups.

Please send your CV and statement of research interests to Linda Young, young@anl.gov.