

Postdoctoral Fellow in: Probing Colliding Plasmas – Experiment & Modelling

Period: Jan 2006 – June 2007
Funded by: SFI Frontiers Basic Research Programme
Principal Investigator: John T Costello – <http://www.physics.dcu.ie/~jtc>

The laser plasma group at DCU, part of the National Centre for Plasma Science and Technology (NCPST – <http://www.ncpst.ie>) seeks a Postdoctoral Fellow with experience in intense laser matter interaction. The project is concerned with a combined experimental and theoretical study of the interaction of expanding plasma plumes with counter-streaming plumes and also solid surfaces. This Fellowship is concerned mainly (but not exclusively) with the latter phase. Techniques such as ICCD imaging (for hydrodynamics) and ICCD spectroscopy (for plasma diagnostics) will be used. For very intense laser matter interactions, X-ray imaging and spectroscopy will be used (work to be partly performed in collaboration within the frame of a North South collaboration with Prof. Ciaran Lewis, PLIP Div. of IRCEP at QUB).

The Fellow should ideally have appropriate experimental skills with experience of working with vacuum systems, intense pulsed lasers, laser synchronization systems and spectroscopy. The Fellow should also have very good modeling skills especially in the general area of intense laser matter interactions.

The salary will be ca. €35,336 per annum (Point 1, Level 2 of the CHIU/IUA salary scale).

If interested please contact:
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