



## Postgraduate Studentships

The Scottish Universities Physics Alliance, SUPA, runs an annual call for applications for studentships to fund study leading to a PhDs at its member institutes, with applications being encouraged from non-UK students.

Glasgow University is one of 7 Scottish universities in SUPA, and hosts one of the two Scottish particle physics groups. More details of SUPA can be found at <http://www.supa.ac.uk>.

The Glasgow particle physics group (<http://www.physics.gla.ac.uk/ppe/>) is a key player in the field of detector development within particle physics; as well as performing particle physics analyses at ZEUS, CDF, ATLAS and LHCb; and also GRID development.

The detector development areas of interest for the Glasgow group are aimed at both the upgrades to LHC based experiments (ATLAS and LHCb), the international linear collider project (the GLDC experiment and LCFI collaboration, <http://www.ppd.clrc.ac.uk/lcfi/>), plus many exciting spin-outs from particle physics. For the upgrade of the ATLAS experiment the group is working on the replacement barrel tracker and on 3D detectors as a replacement detector technology for the pixel system. Generic detector development for both ATLAS and LHCb upgrades encompasses MCz, n-on-p and 3D silicon detectors. Much of this work is performed within the umbrella of the CERN based RD50 collaboration, (<http://rd50.web.cern.ch/rd50/>). Glasgow has the RD50 convenor for The New Detector Structures working group, which is, amongst other activities, investigating 3D detectors. The detector development research for the linear collider project is concentrated on the vertex detector with active pixel sensor, APS, technology being pursued. The APS research is backed by an interdisciplinary collaboration with many non-particle physics end users (<http://mi3.shef.ac.uk/> for more details). For details on the full research activities of the group; see [http://ppewww.physics.gla.ac.uk/det\\_dev](http://ppewww.physics.gla.ac.uk/det_dev).

The group invites those interested in the detector development issues covered above to apply for a SUPA scholarship to fund a period of study of 3 years to follow a PhD with the group. The application process opens at the start of October 2007, (closes January 2008), for scholarships that start in the summer of 2008. Other scholarship opportunities are also available for students, with a later application date of December 2007, with details available on request.

More information regarding the research of the group, studying for a PhD at Glasgow and the application procedure for studentship, as well as help with the application itself, can be obtained from either Richard Bates, [r.bates@physics.gla.ac.uk](mailto:r.bates@physics.gla.ac.uk) or Chris Parkes, [c.parkes@physics.gla.ac.uk](mailto:c.parkes@physics.gla.ac.uk).