

The Geoenvironmental Research Centre is based at the Cardiff School of Engineering, a large multi-disciplinary Department. The centre houses a 100G large scale centrifuge, a well equipped geoenvironmental laboratory and extensive in-house modelling software with two large scale super computers used for simulations.

GRC is a well established research centre based at the School of Engineering, Cardiff University. The Centre conducts research and development work across the whole spectrum of geoenvironmental interest. Its scientific mission is to provide rigorous, academically outstanding work, which will provide the basic underpinning engineering science, required in this area. Areas of interest include: pollutant migration and control, remediation of contaminated land, waste disposal - municipal waste, waste disposal - industrial waste, waste disposal – high level nuclear waste, performance of engineered barriers, reuse and recycling of materials, risk assessment, e-science in relation to geoenvironmental engineering, on-site and field monitoring, global warming effects, underground storage capabilities. Over the last 5 years, research income to the value of some £3.5M has been attracted, from a range of funding sources.

The Centre is equipped with extensive experimental and computational facilities. Experimental facilities are made up of a wide range of traditional and state of the art equipment (including; leaching columns and triaxial permeameters, analytical facilities, a 100g large scale geotechnical centrifuge, computer controlled triaxial testing equipment, gravimetric and volumetric pressure plate extractor equipment for use in unsaturated soil characterisation and large scale shear box). Computational facilities are available over an extensive ethernet network and include high performance mainframes (including 3 multi-processor super computers valued at over £1M).