

Potential PhD topics in the areas of Soil science and Geoarchaeology



UNIVERSITY OF
STIRLING



The **School of Biological and Environmental Sciences** is pleased to be able to offer a number of potential PhD topics in the areas of soil science and geoarchaeology.

- **3-D visualisation of the dynamics of soil structure and carbon distributions**
Funding will be sought from the School's NERC studentship quota
Contact **Dr Clare Wilson** c.a.wilson@stir.ac.uk
- **Climate change and biodiversity in Scotland's montane habitats: cascade effects of changes in plant community composition on soil invertebrate assemblages**
Funding for this project may be available from NERC or SNH
Contact **Prof. Phil Wookey** philip.wookey@stir.ac.uk
- **Developing spatially explicit predictive capabilities in erosion, sediment flux and storage modelling within subcatchments of the Tay**
This project will be funded by SAGES; SEPA is an additional CASE partner
Contact **Dr. Andrew Tyler** a.n.tyler@stir.ac.uk
- **Historical ecology of fuel resource utilization in Sahelian Africa**
Funding will be sought from the School's NERC studentship quota
Contact **Dr Paul Adderley** w.p.adderley@stir.ac.uk
- **Micro-chemical analysis of grave soils: unlocking the hidden archive of archaeological human burials**
This project will start in spring 2010 and is ERC funded in collaboration with University of York
Contact **Dr. Clare Wilson** c.a.wilson@stir.ac.uk
- **Modelling landscape sensitivities: Are future human-induced landscape changes quantifiable?**
Funding is available through SAGES in collaboration with University of Aberdeen and University of Glasgow
Contact **Dr Paul Adderley** w.p.adderley@stir.ac.uk
- **Scottish soils and the C cycle: How will climate change and 're-wilding' affect soil organic matter dynamics and C fluxes?**
Funding will be sought from the School's NERC studentship quota
Contact **Prof. Phil Wookey** philip.wookey@stir.ac.uk
- **Soil disturbance as a result of tree stump extraction practices**
In collaboration with Forest Research, funding is being sought from the Scottish Forestry Trust
Contact **Dr Clare Wilson** c.a.wilson@stir.ac.uk
- **Temperature responses of soil N transformations**
Joint SCRI / University of Stirling PhD Studentship
Contact **Prof. David Hopkins** d.w.hopkins@stir.ac.uk or **Prof. Phil Wookey** philip.wookey@stir.ac.uk
- **The role of mineral interactions in soil organic carbon stabilisation**
Funding will be sought from the School's NERC studentship quota
Contact **Dr Clare Wilson** c.a.wilson@stir.ac.uk
- **Use of trace elements as tracers of soil – sediment relationships and identification of source areas in eroding catchments: A tool for validating catchment scale modelling of soil and sediment flux**
Funding will be sought from the School's NERC studentship quota and / or a NERC CASE studentship
Contact **Dr. Andrew Tyler** a.n.tyler@stir.ac.uk