

## Twelve Postgraduate Studentships in the Research Areas of Energy & Environment and Health

The University of the Highlands and Islands invites applications for 12 fully funded postgraduate studentships, to be based at campuses across the UHI Partnership. These studentships are funded by the European Social Fund.

The following projects are being offered for 12 PhD studentship appointments:

Participatory Mapping of Health Indicators and Services as a Tool for Anticipatory Co-Planning. Supervisors: Dr Sarah-Anne Munoz, Dr Gaener Rodger and Professor Frank Rennie. Centre for Rural Health, Inverness. Contact: [gaener.rodger@uhi.ac.uk](mailto:gaener.rodger@uhi.ac.uk)

Integrated Land Use: Exploring and Testing Issues Surrounding Farming, Forestry and Energy in the Highlands And Islands. Supervisors: Dr Melanie Smith, Professor Martin Price, Dr Rob Mc Morran. Inverness College. Contact: [melanie.smith@inverness.uhi.ac.uk](mailto:melanie.smith@inverness.uhi.ac.uk)

Coastal Change and Heritage in Northern Scotland. Supervisors: Dr Jane Downes, Dr Edward Pollard, Dr Steven Timoney. Archaeology Centre, Orkney College. Contact: [jane.downes@orkney.uhi.ac.uk](mailto:jane.downes@orkney.uhi.ac.uk)

The Impact of Diesel Particulate and Other Potentially Hazardous Nanoparticles on Mitochondrial Function, Oxidative Stress and Bioactive Lipids in Cells Important to Cardiovascular Health. Supervisors: Prof Ian Megson, Dr Jan Adamson, Dr Roger Duffin \*University of Edinburgh). Department of Diabetes & Cardiovascular Science, Inverness. Contact: [ian.megson@uhi.ac.uk](mailto:ian.megson@uhi.ac.uk)

Study of the Immune-Genetic Mechanism of Type-1 Diabetes. Supervisors: Dr Jun Wei, Professor Sandra MacRury. Department of Diabetes & Cardiovascular Science, Inverness. Contact: [jun.wei@uhi.ac.uk](mailto:jun.wei@uhi.ac.uk)

Investigation of Lipid Metabolism in a Cellular Model of Type 2 Diabetes. Supervisors: Professor Phillip Whitfield, Dr. Mary Doherty, Dr. Silvia Mora (University of Liverpool). Lipidomics Research Facility, Department of Diabetes and Cardiovascular Science, Inverness. Contact: [phil.whitfield@uhi.ac.uk](mailto:phil.whitfield@uhi.ac.uk)

Linking Habitat Characteristics with Red Deer (*Cervus elaphus*) Condition in the Scottish Highlands. Supervisors: Dr Mark Taggart (ERI), Professor Stuart Gibb (ERI), Richard MacNicol (NHC). Environmental Research Institute, North Highland College, Thurso. Contact: [mark.taggart@thurso.uhi.ac.uk](mailto:mark.taggart@thurso.uhi.ac.uk)

Marine Invasive Taxa in the North of Scotland – Connections to Marine Renewable Energy Development. Supervisors: Dr Andrew Guerin, Dr Elizabeth Cook. Environmental Research Institute, North Highland College, Thurso. Contact : [andrew.guerin@thurso.uhi.ac.uk](mailto:andrew.guerin@thurso.uhi.ac.uk)

Surface Active Substances in Inshore Waters of North Scotland. Supervisors: Dr François Muller, Professor Axel Miller, Dr Andrew Turner (University of Plymouth). Environmental Research Institute, North Highland College, Thurso. Contact: [francois.muller@thurso.uhi.ac.uk](mailto:francois.muller@thurso.uhi.ac.uk)

Impact of Large Scale Wave Energy Converter Farms on the Regional Wave Climate. Supervisors: Dr David Christie , Prof John McClatchey, Dr Vengatesan Venugopal (University of Edinburgh). Lews Castle College, Stornoway. Contact: [david.christie@lews.uhi.ac.uk](mailto:david.christie@lews.uhi.ac.uk)

3Fs – Future Functional Foods. Supervisors: Dr Michele S Stanley, Dr John G Day, Dr Mary Doherty, Prof Phil Whitfield. Scottish Association for Marine Science, Oban. Contact: [michele.stanley@sams.ac.uk](mailto:michele.stanley@sams.ac.uk)

Interactions Between Macroalgae Aquaculture for Biofuels and Phytoplankton. Supervisors: Dr Adam Hughes, Dr Keith Davidson, Dr Michele S Stanley. Scottish Association for Marine Science, Oban. Contact: [adam.hughes@sams.ac.uk](mailto:adam.hughes@sams.ac.uk)

Anaerobic Digestion from Marine Materials: What Makes a Methanogen Happy? Supervisors: Dr. Angela Hatton, Dr. Arlene Rowan. Scottish Association for Marine Science, Oban. Contact: [angela.hatton@sams.ac.uk](mailto:angela.hatton@sams.ac.uk)

Combining Biology, Oceanography and Marine Technology to Predict Where Marine Mammals Struck by Tidal-Stream Energy Devices May Come Ashore. Supervisors: Dr Ben Wilson, Dr Andrew Dale, Dr Keith Jackson. Scottish Association for Marine Science, Oban. Contact e-mail: [ben.wilson@sams.ac.uk](mailto:ben.wilson@sams.ac.uk)

Choke points and Agents of Change for Sustainable Development of Marine Renewables. Supervisors: Dr Branka Valcic, Dr Lois Calder, Prof Laurence Mee. Scottish Association for Marine Science, Oban. Contact: [branka.valcic@sams.ac.uk](mailto:branka.valcic@sams.ac.uk)

Leakage of Carbon Dioxide from a Simulated Sub-Seabed Carbon Capture and Storage Reservoir: Potential Impacts on Benthic Biogeochemistry. Scottish Association for Marine Science, Oban. Supervisors: Dr Henrik Stahl, Dr John Howe. Contact: [henrik.stahl@sams.ac.uk](mailto:henrik.stahl@sams.ac.uk)

Subject to funding availability, additional studentships may be awarded. Studentships will begin in October/ November 2011 and are funded for 3.5 years, subject to fulfilment of eligibility criteria and suitable progress. Payments will include fees at UK/EU rates. Overseas candidates applying would be expected to meet the difference in EU/UK and International rates (the latter are currently £12,075 per annum). Applicants are expected to have at least an Honours degree at 2(i) level or equivalent.

For further details and application forms, please visit our website [http://www.uhi.ac.uk/home/research/graduate-school/funded\\_studentships](http://www.uhi.ac.uk/home/research/graduate-school/funded_studentships)  
Please submit your completed application to [Janis.Mackay@uhi.ac.uk](mailto:Janis.Mackay@uhi.ac.uk)

**Closing date for applications is 19th August. Interviews will be held in the first week of September 2011.**

The UHI is committed to diversity and equal opportunities and welcomes applications from all sectors of society.