

Funded PhD projects in Ocean Biogeochemistry with the National Oceanography Centre

Up to 15 funded studentships are available to study ocean biogeochemistry at the National Oceanography Centre in Southampton in conjunction with the NERC COMICS project and the SPITFIRE NERC Doctoral Training Partnership.

COMICS (Controls over Ocean Mesopelagic Interior Carbon Storage) is an ambitious project aimed at understanding the controls on the biological carbon pump, with cruises planned to South Georgia and Benguela. For more details see <http://comics.ac.uk/>

SPITFIRE provides an innovative multi-disciplinary experience for the effective training of future leaders in environmental science, engineering, technology development, business, and policy. Unique features of SPITFIRE include opportunities for placements at a range of prestigious international research organisations or industrial and policy partners.

All students will be registered at the University of Southampton and will undertake their PhD project research within the University or one of the hosting partner organisations.

The Ocean Biogeochemistry and Ecosystems group at NOC is globally renowned as a leading centre of excellence in biological carbon pump research. In the group, plankton ecologists, numerical modellers, remote sensing specialists and particle flux geochemists work together to address the most significant problems in biological and biogeochemical oceanography.

For further information on the projects, individuals are encouraged to contact supervisors directly. For further details and applications, visit <http://noc.ac.uk/gsnocs/how-apply>.

The closing date for applications is 2nd January 2017.

* indicates lead supervisor

NOC supervisor	Co-supervisors	Project title
Stephanie Henson s.henson@noc.ac.uk SPITFIRE studentship	Anna Hickman (Univ. Southampton), Martin Edwards* (SAHFOS), Sonia Batten (Pacific Biological Station)	Climate change impacts and differences between plankton communities in the North Pacific and North Atlantic oceans
Richard Sanders* r.sanders@noc.ac.uk SPITFIRE studentship	Richard Lampitt (NOC), Rachel Mills (Univ. Southampton)	How does ocean biology regulate climate – the role of settling particles and their regeneration length scales in Polar and South African waters
Sarah Giering* s.giering@noc.ac.uk SPITFIRE studentship	Cathy Lucas (Univ. Southampton) Uta Passow (Univ. California, Santa Barbara)	Jellyfish export – Investigating the role of gelatinous zooplankton in the biological carbon pump
Claire Evans*	Richard Sanders (NOC)	Oiling the Microbial Carbon

c.evans@noc.ac.uk SPITFIRE studentship	Joost Brandsma, Tony Postle, John Langley (Univ.Southampton)	Pump: lipids in refractory dissolved organic matter
Stephanie Henson s.henson@noc.ac.uk SPITFIRE studentship	Hugh Venables*, Mike Meredith (British Antarctic Survey), Eleanor Frajka-Williams (Univ. Southampton)	Physical controls on phytoplankton blooms off the west Antarctic Peninsula
Dan Mayor* d.mayor@noc.ac.uk SPITFIRE studentship	Jasmin Godbold (Univ. Southampton), Chris Evans (Centre for Ecology and Hydrology), Barry Thornton (James Hutton Institute), Barry Rawlins (British Geol. Survey)	Quantifying biogeochemical links between land and ocean: closing a major gap in the global carbon cycle
Stephanie Henson* s.henson@noc.ac.uk SPITFIRE studentship	Fred Le Moigne (GEOMAR), Mark Moore (Univ. Southampton), Katsia Pabortsava (NOC)	The ocean's biological carbon pump: variability and controls
Adrian Martin* a.martin@noc.ac.uk SPITFIRE studentship	Raffaele Bernardello (NOC), Mathis Hain (Univ.Southampton), Samar Khatiwala (Univ. Oxford)	The role of the biological carbon pump in biogeochemical cycles
Richard Lampitt* r.lampitt@noc.ac.uk SPITFIRE studentship	Dan Mayor (NOC), Martin Solan (Univ. Southampton), Geraint Tarling (British Antarctic Survey), David Pond (Scottish Association for Marine Science)	The role of zooplankton in ocean biogeochemistry
Alex Poulton* a.poulton@noc.ac.uk SPITFIRE studentship	Tom Bibby (Univ. Southampton)	Unlocking the inner cell: elemental stoichiometry of coccolithophores
Alex Poulton a.poulton@noc.ac.uk SPITFIRE studentship	Gavin Tilstone*, Helen Findlay, Mike Allen (Plymouth Marine Laboratory), Nicholas Bates (Univ. Southampton)	What is the effect of high CO ₂ and temperature on phytoplankton photo- physiology in the Atlantic?
Pete Brown* p.brown@noc.ac.uk SPITFIRE studentship	Richard Sanders (NOC), Nicholas Bates (Univ. Southampton)	Drivers of air-sea CO ₂ fluxes in the Atlantic sector of the Southern Ocean
Dan Mayor dan.mayor@noc.ac.uk SPITFIRE studentship	Sophie Fielding* (BAS), Geraint Tarling (BAS), Clive Trueman (Univ. Southampton)	What role do myctophid fish play in the biological carbon pump?
Dan Mayor dan.mayor@noc.ac.uk SPITFIRE studentship	Cathy Lucas* (University of Southampton), Rob Condon (University of North Carolina Wilmington).	What drives jellyfish population cycles? Influence of climate and environment on the complex life histories of scyphozoans.
Adrian Martin adrian.martin@noc.ac.uk COMICS tied studentship	Mark Moore*, Maeve Lohan (Univ. Southampton), Alex Poulton (NOC), Samar Khatiwala (Univ. Oxford).	Carbon - trace metal interactions in the oceanic twilight zone