

Funded PhD projects in Ocean Biogeochemistry & Ecology at the National Oceanography Centre

Up to 22 funded PhD studentships are available to study ocean biogeochemistry and ecology at the National Oceanography Centre in Southampton.

The Ocean Biogeochemistry and Ecosystems group at NOC is globally renowned as a leading centre of excellence in marine science. In the group, biologists, ecologists, numerical modellers, remote sensing specialists and bio geochemists work together to address the most significant problems in biogeochemical and ecological oceanography.

For further information on projects, please see webpages below or contact supervisors directly.

For details on how to apply, please see the relevant page for funding (noted against each project):

SPITFIRE: <http://www.spitfire.ac.uk/how-apply>

NEXUSS: <https://www.southampton.ac.uk/nexuss/apply/index.page>

ERC: <http://noc.ac.uk/gsnocs/project/observing-biological-carbon-pump-autonomous-underwater-vehicles-0>

All students will be registered at the University of Southampton (UoS).

***** The closing dates for applications are 5th (SPITFIRE) and 26th (NEXUSS) January 2018 *****

* indicates lead supervisor

| Project title | NOC supervisor | Co-supervisors |
|---|---|--|
| A sticky situation: probing the chemistry of aggregate formation in the ocean | Sari Giering* s.giering@noc.ac.uk SPITFIRE studentship | Richard Lampitt, Guy Denuault (UoS), Uta Passow (UCSB, USA) |
| Assessment of temporal changes in the benthos of the Atlantic abyss | Daniel Jones* dj1@noc.ac.uk SPITFIRE studentship | Laura Grange (UoS) |
| Automating the analysis of high-resolution sidescan sonar data to support marine habitat monitoring | Brian Bett bjb@noc.ac.uk NEXUSS studentship | Veerle Huvenne*, Tim Le Bas, Blair Thornton (UoS) |
| Climate change effects on ocean biogeochemistry | Stephanie Henson* s.henson@noc.ac.uk SPITFIRE studentship | Anna Hickman (UoS) |
| Climate change impacts on ecological communities in the North Pacific and North Atlantic oceans | Stephanie Henson s.henson@noc.ac.uk SPITFIRE studentship | Martin Edwards* (SAHFOS), Sonia Batten (SAHFOS, Canada), Anna Hickman (UoS) |
| Developing oceanic biomarkers to disentangle signatures of abiotic and biotic phytoplankton stress | Claire Evans clevans@noc.ac.uk SPITFIRE studentship | Martin Feelisch* (UoS), Dr Joost Brandsma (UoS) |
| DigiJel - Development of an in situ optical system for assessment of jellyfish populations in the open ocean | Richard Lampitt* r.lampitt@noc.ac.uk NEXUSS studentship | Sari Giering, Cathy Lucas (UoS), Sasan Mahmoodi (UoS), Amy Scott- Murray (NHM) |
| Dissecting the microbial foodweb: determining the influence of phytoplankton derived organic matter substrates on bacterial growth efficiency | Claire Evans* clevans@noc.ac.uk SPITFIRE studentship | Manuela Hartmann , Mark Moore (UoS) |

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| How does a varying ocean climate drive change in seafloor ecosystems? | Brian Bett bjb@noc.ac.uk SPITFIRE studentship | Paul Somerfield* (PML) , Laura Grange (UoS) |
| Observing the biological carbon pump with autonomous underwater vehicles | Stephanie Henson* s.henson@noc.ac.uk ERC studentship | Nathan Briggs, Filipa Carvalho, Eleanor Frajka-Williams (UoS) |
| Physiology of polar zooplankton | Daniel Mayor dan.mayor@noc.ac.uk SPITFIRE studentship | Tom Anderson, Cathy Lucas (UoS), David Pond (SAMS), Mark Viant (U.B'ham) |
| Shedding light on particles in the ocean | Sari Giering* s.giering@noc.ac.uk NEXUSS studentship | Henry Ruhl, Adrian Martin, Klas Möller (Helmholtz), Sasan Mahmoodi (UoS) |
| Temporal variability of the carbon system across the Pacific Ocean; causes and implications | Sue Hartman* s.hartman@noc.ac.uk SPITFIRE studentship | Adrian Martin, Toby Tyrrell (UoS), |
| The biological carbon pump: the influence of the physical environment on the formation of marine snow | Adrian Martin* adrian.martin@noc.ac.uk SPITFIRE studentship | Stephanie Henson, Nathan Briggs, Eleanor Frajka-Williams (UoS), Adrian Burd (U. Georgia) |
| The impact of anthropogenic heat uptake on the ocean storage and future uptake of carbon dioxide | Pete Brown* peter.brown@noc.ac.uk SPITFIRE studentship | Elaine McDonagh , Kevin Oliver (UoS) |
| The role of land-ocean fluxes in UK and Malaysian carbon budgets | Richard Sanders* r.sanders@noc.ac.uk SPITFIRE studentship | Claire Evans, Amber Annett (UoS), Moritz Mueller (U. Swinburne). |
| The role of mesoscale eddies in Southern Ocean carbon fluxes from autonomous ocean gliders | Pete Brown* peter.brown@noc.ac.uk NEXUSS studentship | Nick Bates (UoS), Alex Brearley (BAS), Hugh Venables (BAS), Alberto Naveira Garabato (UoS) |
| Tracking particles to understand the role of biology in ocean carbon storage | Henry Ruhl* h.ruhl@noc.ac.uk SPITFIRE studentship | Sari Giering, James Harle, Bob Marsh (UoS) |
| Understanding the stoichiometric coupling of nutrients and carbon within the Southern Ocean | Adrian Martin adrian.martin@noc.ac.uk SPITFIRE studentship | Mark Moore* (UoS), Toby Tyrrell (UoS) |
| Using and improving benthic ecosystem models to understand the future of seafloor communities | Andrew Yool* axy@noc.ac.uk SPITFIRE studentship | Henry Ruhl, Brian Bett , Martin Solan (UoS) |
| Using autonomous underwater vehicles to monitor seafloor habitats and ecosystems in remote and developing regions | Brian Bett* bjb@noc.ac.uk SPITFIRE studentship | Veerle Huvenne, Maria Baker (UoS) |
| What drives variation in the Biological Carbon Pump? | Richard Lampitt r.lampitt@noc.ac.uk SPITFIRE studentship | Stuart Painter, Sue Hartman, Phyllis Lam (UoS) |