



Volcanic and Magmatic Related PhD Studentships - 2017

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UK NERC Doctoral Training Partnerships

Adapting to the Challenges of a Changing Environment (ACCE)

University of Sheffield, University of York, Liverpool & other partners

<http://acce.group.shef.ac.uk/>

Host institution: University of Sheffield

N/A

Host institution: University of York

N/A

Host institution: Liverpool

N/A

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The Cambridge Earth System Science DTP: Multi-disciplinary studies of the solid Earth, its atmosphere, oceans, cryosphere and biosphere

University of Cambridge, British Antarctic Survey & other partners

(Deadline: 4th January 2017)

<http://essdtp.esc.cam.ac.uk/>

Why do lava lakes go up and down?

Andy Woods (Cambridge) / Clive Oppenheimer (Cambridge)

How active have Ethiopia's volcanoes been in the Late Quaternary?

Christine Lane (Cambridge) / Clive Oppenheimer (Cambridge)

Ice and Fire: feedbacks between glaciations, volcanism and climate

Marie Edmonds (Cambridge) / Joanne Johnson (BAS) / Oliver Shorttle (Cambridge) / John Smellie (Leicester)

Micro- to macro-scale evolution of continental mantle

Sally Gibson (Cambridge) / Graham Pearson (Alberta, Canada)

The source and flux of volatiles in Earth's lithospheric mantle

Sally Gibson (Cambridge) / Teal Riley (BAS) / Fin Stuart (SUERC)

Probing lithological heterogeneity in Earth's convecting mantle: A novel trace element and isotopic approach

Sally Gibson (Cambridge) / Helen Williams (Cambridge)

The sulfur burden of large basaltic eruptions

Marie Edmonds (Cambridge) / John Maclennan (Cambridge)

Mixing and eruption of crystal laden bubbly magmas in the shallow crust

Andy Woods (Cambridge) / Marie Edmonds (Cambridge)

The rheology of the partially molten mantle

John Rudge (Cambridge)

High resolution imaging on the core-mantle boundary

Sanne Cottaar (Cambridge) / Andrew Curtis (Edinburgh) / David Al-Attar (Cambridge)

The redox structure of the Icelandic plume: new constraints from iron stable isotopes

Helen Williams (Cambridge) / John Maclennan (Cambridge) / Oliver Shorttle (Cambridge) / Julie Prytulak (Imperial)

Chemical geodynamics: combining geochemical and geophysical constraints on mantle structure and processes

Oliver Shorttle (Cambridge) / John Maclennan (Cambridge)

Geochemical study of sulfate and sodium in ice cores to improve the interpretation and use volcanic and sea ice proxies

Eric Wolff (Cambridge) / Sasha Turchyn (Cambridge) / Anna Jones (BAS)

Using petrology to inform modelling of volcano deformation

Marie Edmonds (Cambridge) / Alex Copley (Cambridge)

Kilauea Volcano's high fountaining eruptions: the story from the crystals

Marie Edmonds (Cambridge) / John Maclennan (Cambridge)

Outgassing of metals by volcanoes

Marie Edmonds (Cambridge) / Tamsin Mather (Oxford)

Magma rise times from finite element models of crystal growth and diffusion

John Maclennan (Cambridge) / John Rudge (Cambridge)

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Centre for Doctoral Training in Oil and Gas

University Aberdeen, Durham University, Heriot-Watt University, Imperial College London, University of Manchester, University of Oxford, British Geological Survey & Other Partners

<http://www.nerc-cdt-oil-and-gas.ac.uk>

Host institution: University of Aberdeen

N/A

Host institution: Durham University

N/A

Host institution: Heriot-Watt University

N/A

Host institution: Imperial College, London

N/A

Host institution: University of Manchester

N/A

Host institution: University of Oxford

N/A

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Central England NERC Training Alliance (CENTA)

University of Birmingham, University of Leicester, Loughborough University, The Open University, University of Warwick & other partners

(Deadline: 23rd January 2017)

<http://www.centa.org.uk/>

Host institution: University of Birmingham

Volcanic hazards in the Mexico City region: probing a 500,000 year record of diverse eruptions from a lacustrine succession

Sebastian Watt (Birmingham) / Victoria Smith (Oxford) / Michael Branney (Leicester)

Climatic consequences of geological realistic methane emissions from large igneous provinces

Stephen Jones (Birmingham) / Tom Dunkley Jones (Birmingham)

Host institution: University of Leicester

Crustal controls on craton-margin magmatic ore deposits: insights from south eastern Africa

Dave Holwell (Leicester) / Richard Walker (Leicester) Tiffany Barry (Leicester) / Simon Tapster (BGS - NIGL) / Simon Purkiss (Consolidated Nickel Mines) / Dave Evans (Carrog Consulting)

Hazardous explosive eruptions at a flooded caldera volcano, Philippines

Michael Branney (Leicester) / Dan Smith (Leicester) / Tiffany Barry (Leicester)

Structural and experimental investigation of high-temperature, rapid ductile deformation of tuffs at explosive volcanoes

Mike Branney (Leicester) / David Holwell (Leicester) / Yan Lavallée (Liverpool)

Picture Gorge Basalts, Columbia River large igneous province: the missing link in determining the timing of the most voluminous phase of Miocene volcanism

Tiffany Barry (Leicester) / Sarah Sherlock (OU) / Marc Reichow (Leicester)

Host institution: The Open University, Milton Keynes

N/A

Host institution: Loughborough University

N/A

Host institution: University of Warwick

N/A

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E3 - Edinburgh, Earth and Environment

University of Edinburgh & other partners

(Deadline: 16th January 2017)

<http://e3dtp.geos.ed.ac.uk/>

Host institution: University of Edinburgh

Andesite Genesis: A Sumatran case study

Kate Saunders (Edinburgh) / Linda Kirstein (Edinburgh) / Vall Troll (Uppsala)

Core formation in the early Earth: the lasting geochemical legacy of textural instabilities

Geoffrey Bromiley (Edinburgh) / Paul Attfield (Edinburgh) / Ian Butler (Edinburgh)

Explosive eruptions of the Colima Volcanic Complex, Mexico: linking proximal and distal tephra layers to build a better understanding of eruptive activity

Anthony Newton (Edinburgh) / Julia Crummy (BGS) / Andrew Dugmore (Edinburgh)

Initiation of melting in large igneous provinces - a role for halogens?

Linda Kirstein (Edinburgh) / Godfrey Fitton (Edinburgh)

Investigating the role of mantle dynamics and plate tectonics in climate variability: An African case study

Lara Kalnins (Edinburgh) / Richard Essery (Edinburgh) / Linda Kirstein (Edinburgh)

Modelling volcanic granular flows: Particle dynamics and emergent structure of pyroclastic density currents

Mark Naylor (Edinburgh) / Eliza Calder (Edinburgh) / Jin Sun (Edinburgh)

Rare earth elements in olivine as a tool to understand igneous and mantle processes

Cees-Jan De Hoog (Edinburgh) / Godfrey Fitton (Edinburgh)

The East Australian, Tasmantid, and Lord Howe volcanoes: exploring the origins of three contemporaneous, parallel chains of volcanism

Lara Kalnins (Edinburgh) / Godfrey Fitton (Edinburgh) / Benjamin Cohen (Glasgow) / Jeroen van Hunen (Durham)

Volcanic ash layers and vegetation: Understanding the post depositional transformation of 1980 Mt St Helen's tephra deposits

Andrew Dugmore (Edinburgh) / Anthony Newton (Edinburgh) / Caroline Lehmann (Edinburgh) / Nick Cutler (Cambridge) / Richard Streeter (St Andrews)

What can low frequency seismicity tell us about eruption processes at frequently-active subduction zone volcanoes?

Andrew Bell (Edinburgh) / Eliza Calder (Edinburgh)

Host institution: Scottish Universities Environmental Research Centre (SUERC)

Super-eruptions: what do they do and when do they do it?

Darren Mark (SUERC) / Kate Saunders (Edinburgh)

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Environment East (EnvEast)

University of East Anglia, University of Kent, University of Essex, British Antarctic Survey & other partners

(Deadline: 8th January 2017)

<http://www.enveast.ac.uk/>

Host institution: University of East Anglia

Critical controls on eruptive behaviour of an intraplate volcano

Jenni Barclay (UEA) / Ricky Herd (UEA) / Richard Brown (Durham) / Kate Dobson (Durham) / Chiara Petrone (NHM)

Modelling lahar hazard and landscape disturbance following a volcanic eruption on the island of Montserrat

Georgina Bennett (UEA) / Jenni Barclay (UEA) / Adam Stinton (Montserrat Volcano Observatory) / Melanie Froude (Sheffield)

Geophysical detection of fluid movement at active volcanoes

Richard Herd (UEA)

Improvements with a purpose: the role of accurate earthquake locations in the mapping of a volcanic plumbing system

Jessica Johnson (UEA)

Host institution: University of Kent

N/A

Host institution: University of Essex

N/A

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ENVISION

Lancaster University, Bangor University, University of Nottingham, Rothamsted Research & other partners

<http://www.envision-dtp.org/>

Host institution: Lancaster University

N/A

Host institution: Bangor University

N/A

Host institution: University of Nottingham

N/A

Host institution: Rothampsted Research

N/A

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The Great Western Four Plus (GW4+)

University of Bristol, Cardiff University, University of Exeter, University of Bath & other partners

(Deadline: 6th January 2017)

<http://nercgw4plus.ac.uk/>

Host institution: University of Bristol

Anticipating the next very large volcanic eruption: formation and transport of volcanic ash

Katherine Cashman (Bristol) / Alison Rust (Bristol) / Samantha Engwell (BGS) / Guido Giordano (Roma Tre, Italy)

Magmatic Processes and eruption variability at Mount Taranaki, New Zealand

Heidy Mader (Bristol) / Richard Brooker (Bristol) / Geoff Kilgour (GNS Sciences)

Sub-volcanic breccias: combining ore deposit, volcanology and geophysical perspectives

Alison Rust (Bristol) / Richard Herrington (NHM) / Ben Williamson (Exeter)

Towards real-time seismic monitoring of volcanoes for hazard mitigation

Michael Kendall (Bristol) / Katherine Cashman (Bristol) / Richard Luckett (BGS) / Rob Macdonald (TerraDat)

Host institution: Cardiff University

Constraining the petrogenesis and timing of the late magmatic events in the British Palaeogene Igneous Province

Andrew Kerr (Cardiff) / Iain McDonald (Cardiff) / Hannah Hughes (Cardiff)

Exposed ocean crust on Masirah Island, SE Oman: crustal accretion and melt evolution at a slow spreading (Jurassic) mid-ocean ridge

Christopher MacLeod (Cardiff) / Johan Lissenberg (Cardiff) / Ian Parkinson (Bristol)

Geochemistry and geochronology of Alpine volcanism constrained by volcanogenic sedimentary deposits (Switzerland, France and Italy)

David Buchs (Bristol) / Jon Blundy (Bristol) / Darren Mark (SUERC) / Jean-Luc Epard (Lausanne, Switzerland) / Huw Davies (Cardiff)

Magmatic Ni-Cu-PGE prospectivity of the Labrador trough, Canada

Wolfgang Maier (Cardiff) / Jens Andersen (Exeter)

Reactive magmatic processes in the deep arc crust

Johan Lissenberg (Cardiff) / Wim Degruyter (Cardiff) / Jon Blundy (Bristol)

Volcanic plumes from explosive basaltic eruptions: the case of Mount Etna (Italy)

Wim Degruyter (Cardiff) / Simona Scollo (INGV, Italy) / Constanza Bonadonna (Geneva, Switzerland) / Huw Davies (Cardiff)

Novel isotopic window into old crust: How did Earth's continents form?

Marc-Alban Millet (Cardiff) / Morten Andersen (Cardiff) / Tim Elliott (Bristol) / Hugh Smithies (GSWA, Australia) / David Champion (Geoscience Australia)

Host institution: Camborne School of Mines, University of Exeter

Exsolution depth and migration pathways of mineralising fluids in porphyry deposit-forming magmatic systems

Ben Williamson (Exeter) / Robin Armstrong (NHM) / Katherine Cashman (Bristol) / Robin Shail (Exeter)

Magmas, fluids. Faults and metals: re-assessing the controls on magmatic-hydrothermal W-Sn-As-Cu-Zn-Pb mineralisation and zonation associated with the Cornubian Batholith, SW England

Robin Shail (Exeter) / Jamie Wilkinson (NHM) / Clara Wilkinson (NHM) / Beth Simons (Exeter)

Platinum-group element (PGE) mineralisation potential of the Antrim Plateau magmatics, Northern Ireland

Hannah Hughes (Exeter) / Jens Andersen (Exeter) / Iain McDonald (Cardiff) / Dermot Smyth (Lonmin, Northern Ireland) / Andrew Kerr (Cardiff)

What drives volcanic unrest in New Zealand? Insights from volcano geodesy and numerical eruption forecasting

James Hickey (Exeter) / Joachim Gottamann (Bristol) / Nico Fournier (GNS Sciences)

Understanding the origin of alkaline igneous provinces and associated critical metal mineralisation: the Chilwa Alkaline Province, Malawi

Frances Wall (Exeter) / Kathryn Goodenough (BGS, Edinburgh) / Emma Humphreys-Williams (NHM) / Sam Broom-Fendley (Exeter)

Host institution: British Geological Survey, Keyworth

N/A

Host institution: British Antarctic Survey, Cambridge

N/A

Host institution: University of Bath

N/A

IAPETUS: Postgraduate Environmental Training NexUS

Durham University, University of Glasgow, Newcastle University, University of Stirling, University of St. Andrews & other partners

(Deadline: 20th January 2017)

<http://www.iapetus.ac.uk/>

Host institution: Durham University

Testing the link between large volcanic eruptions and millennial scale climate change

Richard Brown (Durham) / James Baldini (Durham) / Jim McElwaine (Durham) / Darren Mark (SUERC)

Host institution: University of Glasgow

N/A

Host institution: University of St Andrews

High field strength element mobility in late-stage fluids, Gardar Rift, South Greenland

Adrian Finch (St Andrews) / Madeleine Humphreys (Durham) / Jonathan Cloutier (St Andrews)

Host institution: Newcastle University

N/A

Host institution: University of Stirling

N/A

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The London NERC Doctoral Training Partnership

University College London, Birkbeck, (UoL), Brunel University, King's College London, Natural History Museum (NHM), Queen Mary, (UoL), Royal Holloway (UoL) & other partners

(Deadline: 9th January 2017)

<http://london-nerc-dtp.org/>

Host institution: University College London

Reassessing the volcanic hazard of unusual lavas in the East African Rift

Adrian Jones (UCL) / Chris Kilburn (UCL)

High temperature fracture and flow in volcanic systems

Peter Sammonds (UCL) / Hugh Tuffen (Lancaster)

Host institution: Royal Holloway (University of London)

Ca isotopes as a potential tracer for CO₂ in magmatic systems

Christina Manning (RHUL) / Phillip Pogge Von Strandmann (UCL)

Seismic and geophysical study of the dynamics of the Réunion plume and its plume-ridge interaction

Jason Margan (RHUL)

The interaction of volcanism with a TTF triple junction: the case of Volcan Baru' and the subducting Panama Fracture Zone

Paola Vannuchi (RHUL) / Chiara Petrone (NHM, London)

Host institution: Natural History Museum

Timescale of explosive eruptions at Popocatepetl Volcano (Mexico)

Chiara Petrone (NHM, London) / Hilary Downes (Birkbeck)

Host institution: Birkbeck (University of London)

N/A

Host institution: Brunel University

N/A

Host institution: Kings College London

N/A

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The Manchester & Liverpool Doctoral Training Programme

University of Manchester, Liverpool & Other Partners

(Deadline: 18th January 2017)

<http://www.liv.ac.uk/studentships-earth-atmosphere-ocean/>

Host institution: University of Manchester

Unravelling the behaviour of basaltic volcanoes by combining field observations, 4D imaging of HPHT basaltic magma kinetics experiments and analytical investigations

Mike Burton (Manchester) / Margherita Polacci (Manchester) / Peter Lee (Manchester) /
Nolwenn Le Gall (Manchester) / Fabio Arzili (Manchester)

Understanding hydraulic behaviour of the Krafla geothermal system

Greg Holland (Manchester) / Masoud Babaei (Manchester) / Ray Burgess (Manchester) /
Hugh Tuffen (Lancaster) / Sigurdur Markusson (Landsvirkjun Geothermal) / Sæmundur Halldórsson
(University of Iceland)

Understanding Basaltic Plinian Eruptions

Mike Burton (Manchester) / Margherita Polacci (Manchester) / Giuseppe La Spina (Manchester)

Crystal Mush Controls on Volcanic Activity

Mike Burton (Manchester) / Nico Gray (Manchester) / Anne Juel (Manchester)

Magmatic versus phreatomagmatic activity during the 1783-1784 Laki eruption, Iceland: implications for vesiculation, permeability and degassing in basaltic magmas

Margaret Hartley (Manchester) / Margherita Polacci (Manchester) / Cathy Hollis (Manchester)

Halogen heterogeneity in the Icelandic mantle source

Margaret Hartley (Manchester) / Ray Burgess (Manchester) / Alison Pawley (Manchester)

The role of viscous heating on the dynamics of explosive volcanic eruptions: the case of the 1991 Mount Pinatubo eruption, Philippines

Margherita Polacci (Manchester) / Yan Lavallée (Liverpool)

Host institution: Liverpool

Acoustic characterization of volcanic activity at the Santiaguito lava dome complex, Guatemala; implications for assessment of eruption strength and atmospheric ash plume rise

Silvio De Angelis (Liverpool) / Andreas Rietbrock (Liverpool) / Yan Lavallée (Liverpool)

Seismicity, deformation, and failure at lava dome volcanoes

Silvio De Angelis (Liverpool) / Yan Lavallée (Liverpool)

The fluid flow properties of New Zealand geothermal fields

Dan Faulkner (Liverpool) / Dave McNamara (GNS, New Zealand) / Yan Lavallée (Liverpool)

Ultra-high-resolution models of fast changing topography: application to basaltic lava flows

Pablo Gonzalez (Liverpool) / Silvio De Angelis (Liverpool)

High Latitude Variations of the Earth's Magnetic Field: the Holocene Icelandic Lava Record

Mimi Hill (Liverpool) / Andy Biggin (Liverpool) / Richard Holme (Liverpool)

The Conundrum of Rangitoto Volcano, New Zealand; the Palaeomagnetic Story

Mimi Hill (Liverpool) / Andy Biggin (Liverpool)

Kimberlite magmas and eruptions: Origin and evolution

Janine Kavanagh (Liverpool) / Elisabetta Mariani (Liverpool) / Yan Lavallée (Liverpool)

Testing dyke ascent models by mapping crustal deformation in volcanic terrains

Janine Kavanagh (Liverpool) / Pablo Gonzalez (Liverpool) / David Dennis (Liverpool)

Tracking magma ascent in the crust

Janine Kavanagh (Liverpool) / Silvio de Angelis (Liverpool) / David Dennis (Liverpool)

Analysing the threat of volcanic ash on jet engine operation

Yan Lavallée (Liverpool) / Mike Burton (Manchester) / Silvio De Angelis (Liverpool)

What controls magma foaming in volcanic conduits? Testing the effects of differential stress and temperature fields

Yan Lavallée (Liverpool) / Mike Burton (Manchester) / Peter Lee (Manchester)

The volcanic safety valve: controlling the release of volatiles for safe geothermal drilling into magma chamber

Yan Lavallée (Liverpool) / Felix von Aulock (Liverpool) / Peter Lee (Manchester)

Eruptive shearing during magma ascent- a control on lava dome eruption dynamics

Yan Lavallée (Liverpool) / Janine Kavanagh (Liverpool) / David Dennis (Liverpool)

3D seismic tomography at Santiaguito volcano, Guatemala

Andreas Rietbrock (Liverpool) / Silvio De Angelis (Liverpool) / Yan Lavallée (Liverpool)

High frequency Moment Tensors: A novel tool to estimate earthquakes faulting mechanisms in volcanoes, subduction zones and hydrofracturing experiments

Andreas Rietbrock (Liverpool) / Ben Edwards (Liverpool)

Accretion of the continental crust: from real-time observations to mechanical and analogue models of magma body growth

Pablo Gonzalez (Liverpool) / Janine Kavanagh (Liverpool)

NERC Science @ Leeds and York – Site for PhD Training in Environmental Research (SPHERES)

University of Leeds, University of York & other partners

(Deadline: 9th January 2017)

<http://www.nercdtp.leeds.ac.uk/>

Host institution: University of Leeds

Tracking and measuring volcanic plumes using drones

Evgenia Ilyinskaya (Leeds) / Tjarda Roberts (CNRS Orleans) / Melissa Pfeffer (Icelandic Meteorological Office) / Barbara Brooks (National Centre for Atmospheric Science) / Anja Schmidt (Leeds)

Petrological & geochemical insights into subduction initiation- the case of Izu-Bonin-Mariana volcanic arc

Ivan Savov (Leeds) / Jason Harvey (Leeds) / Rosemary Hickey-Vargas (FIU) / Gene Yogodzinski (USC)

Host institution: University of York

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The Oxford DTP in Environmental Research

University of Oxford & other partners

(Deadline: 20th January 2017)

Oxford Earth Sciences accepts applications for DPhil study via three mechanisms: direct application, NERC Environmental Doctoral Training Programme (DTP), and through the Science and Technology Funding Council (STFC).

Doctoral Training Programme

<https://www.environmental-research.ox.ac.uk/>

The Oxford DTP in Environmental Research seeks to recruit the most promising research students, from a wide variety of backgrounds, capable of developing their own research projects in line with the interests of our broad selection of supervisors.

Supervisors: *Tarje Nissen-Meyer, Karin Sigloch, Tamsin Mather, Richard Katz, David Pyle, Lars Hansen, Chris Ballentine*

Volcanology, Seismology and Active Tectonics

- Seismological imaging of mantle structure beneath a hotspot volcano
- Volcanic CO₂ emissions in the Main Ethiopian Rift
- Magma/mantle dynamics: production and extraction of melt from the convecting mantle
- The fluid dynamics of melting and melt extraction
- Using Earth Observation techniques to understand volcanic processes
- Mantle volatile reservoirs
- Volcanic continental margins and continental break-up
- Understanding the volcanism of the Tasmantid seamount chain
- Large explosive eruptions in the Main Ethiopian Rift

Direct Application

The projects below may also be applied for through the DTP route.

<https://www.earth.ox.ac.uk/teaching/graduates/graduate-admissions/dphil-projects-2017/>

Students with alternative funding, including scholarships, industry or government backing, or those who are self-funded, can apply directly to the department to study for a DPhil in Earth Sciences. Those considering this route are advised to look at the projects available for the coming year, and to contact their prospective supervisor before submitting an application.

Using machine-learning approaches to detect changes in volcanic activity

David Pyle (Oxford) / Tamsin Mather (Oxford) / David Clifton (Oxford) / Mel Rodgers (Southern Florida, USA)

Using Archives of Past Disasters to Improve Resilience to Volcanic Hazards

David Pyle (Oxford) / Tamsin Mather (Oxford) / Chris Lintott (Oxford) / Sally Shuttleworth (Oxford) / Steve Reece (Oxford)

Magma/mantle dynamics: production and extraction of melt from the convecting mantle

Richard Katz (Oxford)

Magma genesis and transport in subduction zones – theory and computational models

Richard Katz (Oxford)

Understanding the volcanism of the Tasmantid seamount chain

Tamsin Mather (Oxford) / David Pyle (Oxford) / Lara Kalnins (Durham) / Ben Cohen (Glasgow)

The importance and impacts of magmatic volatiles: the behaviour of noble gases and halogens in magmatic systems

Tamsin Mather (Oxford) / Chris Ballentine (Oxford) / David Pyle (Oxford) / Ray Burgess (Manchester)

STFC Funded

These projects are directly funded by the STFC and are not available through the DTP.

<https://www.earth.ox.ac.uk/teaching/graduates/graduate-admissions/dphil-projects-2017/>

Tidally forced melting, magmatic segregation, and planetary evolution of Jupiter's moon Io. Theory and computational models

Richard Katz (Oxford)

Quantifying volcanic activity on Venus through change detection

Tamsin Mather (Oxford) / David Pyle (Oxford) / Colin Wilson (Oxford) / Richard Ghail (Imperial) / Robbie Herrick (Alaska Fairbanks, USA)

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SCENARIO: Postgraduate centre in the SCience of the Environment: Natural and Anthropogenic pRocesses, Impacts and Opportunities

University of Reading, University of Surrey & other partners

(Deadline: 30th January 2017)

<http://www.reading.ac.uk/graduateschool/dtcsandgrants/gs-nercdtp.aspx>

Host institution: University of Reading

Trace-element incorporation into stalagmite calcite as a paleo-volcanic record: a chemical perspective

Ricardo Grau-Crespo (Reading) / Dominik Fleitmann (Reading) / Christian Pfrang (Reading) /
Stuart Black (Reading)

Host institution: University of Surrey

N/A

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Science and Solutions for a Changing Planet

Imperial College London & other partners

(Deadline: 16th January 2017)

<http://www3.imperial.ac.uk/earthscienceandengineering/courses/phdopportunities>

High-resolution imaging and modelling of the magma plumbing system at the Santorini volcano

Michele Paulatto (Imperial) / Joanna Morgan (Imperial) / Matthew Jackson (Imperial)

The Shatsky Rise: Finding the Roots of the Earth's Largest Volcano

Julie Prytulak (Imperial)

Titanite occurrence and chemistry as a monitor of melt redox state, magmatic fertility and hydrothermal alteration in porphyry ore systems

Jamie Wilkinson (NHM)

Magma mixing and explosive activity at Popocatepetl volcano, Mexico

Chiara Petrone (NHM) / Julie Prytulak (Imperial)

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SPITFIRE – the Southampton Partnership for Innovative Training of Future Investigators Researching the Environment

University of Southampton, National Oceanography Centre & other partners

(Deadline: 2nd January 2017)

<http://projects.noc.ac.uk/spitfire/>

Volatile control on the evolution of hotspot volcanoes

Rex Taylor (Southampton) / Tom Gernon (Southampton) / Michael Stock (Cambridge)

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University of Iceland

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Uppsala University, Sweden

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