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PROGRAMMES UNDERPINNED BY
WORLD-LEADING AND INTERNATIONALLY
EXCELLENT RESEARCH (RESEARCH
EXCELLENCE FRAMEWORK 2014)


Science and Sport Research Summer School

PREPARATION FOR DOCTORAL STUDY

UNIVERSITY OF THE
WEST *of* SCOTLAND

UWS

Science and Sport Research Summer School



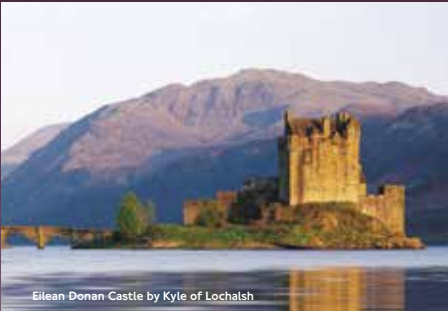
University of the West of Scotland's Science and Sport Research Summer School offers you a unique opportunity to progress into postgraduate research and boost your research and employability skills. The Summer School combines world class multidisciplinary applied research in Science and Sport with outstanding resources and an innovative approach, for a unique experience.



Loch Lomond & The Trossachs National Park



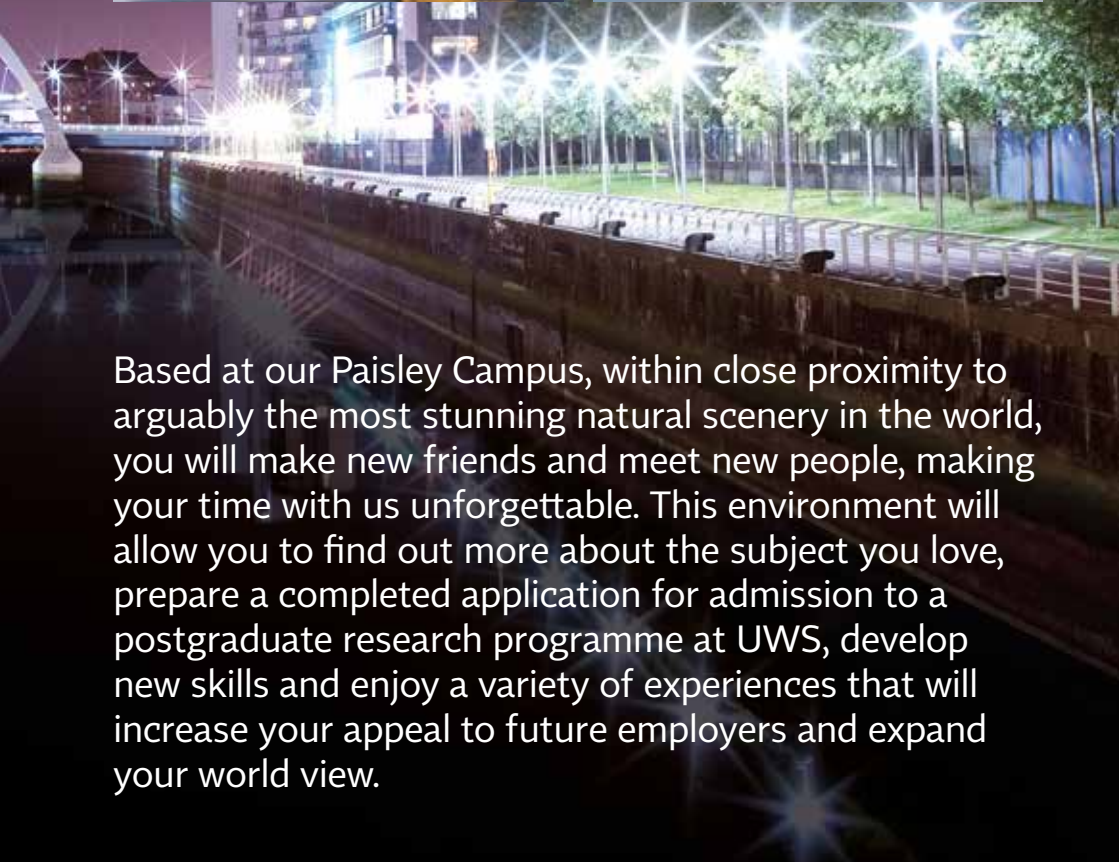
Inveraray on Loch Fyne



Eilean Donan Castle by Kyle of Lochalsh



Isle of Arran in the Firth of Clyde



Based at our Paisley Campus, within close proximity to arguably the most stunning natural scenery in the world, you will make new friends and meet new people, making your time with us unforgettable. This environment will allow you to find out more about the subject you love, prepare a completed application for admission to a postgraduate research programme at UWS, develop new skills and enjoy a variety of experiences that will increase your appeal to future employers and expand your world view.

Did you know?

Although UWS is a modern enterprising university, its roots span 120 years with a strong tradition of practicality and relevance. Utilising cutting edge facilities, specialist knowledge and world-leading and internationally excellent expertise, our research has real-world impact and we are at the forefront in the search for solutions to some of the world's most pressing problems. Visit www.uws.ac.uk/media/3747/uws_researchpluseenterprise_guide_2016_rgb.pdf or www.uws.ac.uk/research/ for more information.

Research in the School of Science and Sport is co-ordinated through the Institute for Clinical Exercise and Health Science (ICEHS) and the Institute for Biomedical and Environmental Science (IBEHR) which are internationally recognised and were rated as producing world-leading and internationally excellent research in the Research Excellence Framework (REF) 2014. Research is currently aligned to the following groups and centres:

Centre for Musculoskeletal Science

The Centre for Musculoskeletal Science brings together wide-ranging biomedical and physiology expertise with clinical and enterprise links to focus on key global societal health challenges including arthritis and chronic obstructive pulmonary disease (COPD). With expertise in inflammatory pathways and immunology, PAR receptors, vascular function, *in vivo* disease models, tissue remodelling, microcomputed tomography, cellular signalling and gene regulation, the Centre is a key player in national and international funded research partnerships. Recent examples include the Centre's involvement in an Arthritis Research UK Programme (£1.2M) to investigate protease activated receptor 2 (PAR2) roles in osteoarthritis; and BREATH: Border and Regions Airways Training Hub (€7.7M), a cross-border, collaborative EU-funded doctoral training programme focussed on COPD research.

For further information contact Dr Gary Litherland (gary.litherland@uws.ac.uk)

Centre for Environmental Research

The Centre for Environmental Research is actively involved in research, enterprise and engagement in the areas of sustainability and environmental research and management. The Centre has expertise in aquaculture and fish health and welfare, waste and waste water treatment (municipal and industrial), waste management, sustainable mining practices (including hydraulic fracturing or fracking) soil quality and health, urban environments and climate change. Staff are actively involved in externally funded research with national and international partners and industry (e.g. Stemcor, Arcelor Mittal, Tata, EU commission, NATO, British Council, MARS, DEFRA, WRAP, Hydroklear Services, and NERC).

For further information contact Dr Brian Quinn (brian.quinn@uws.ac.uk)

Physical and Mathematical Sciences Research Group

The Group's research is multifaceted, interdisciplinary and highly collaborative, contributing towards pharmaceutical, biomedical, environmental, materials and formulation science, with strong links to engineering, physics and healthcare. Group activity is underpinned through established industrial links (e.g. Sudarshan, BASF, Polaroid, PBS, Clariant AG, and GMI/WEEE Scotland) and external funding (EPSRC, Innovate UK, OGIC, and the Royal Society). Current research in physical sciences includes development of n-conjugated materials for advanced high performance optical and optoelectronic applications, synthesis, characterisation and functionalisation of biomaterials, natural materials, nanomaterials and responsive polymers for medical and industrial applications and the isolation and structure elucidation of bioactive marine and terrestrial-derived microbial natural products. Mathematics and theoretical research includes modelling of physical and biological processes such as liquid

crystal devices for displays and sensors, novel ultrasonic devices, heat flow in novel welding techniques, nutrient flow in fish and amphibian egg masses and mathematical ecology.

For further information contact Dr Callum McHugh (callum.mchugh@uws.ac.uk)

Infection and Microbiology Group

Research activity encompasses a number of areas spanning medical and environmental applications. These include host-pathogen interactions, new medicines for neglected and tropical diseases, diagnostics, reproductive immunology, and medical devices for cell manipulation. Staff also research at the interface between the environment and human and animal health, specifically studying infectious disease transmission and the emergence of antimicrobial resistance. Many projects include collaborators from both the health service and industry and are impact driven. For example, research on pathogenic free-living amoebae involves collaborating with ophthalmologists and the eyecare industry to discover new effective medicines for the sight-threatening pathogen, *Acanthamoeba*. Research with the aquaculture industry is investigating *Paramoeba*, which causes amoebic gill disease and a huge economic burden to many countries.

For further information contact Prof Fiona Henriquez (fiona.henriquez@uws.ac.uk)

Clinical Exercise, Nutrition and Environment Research Group

The Clinical Exercise, Nutrition and Environment Research Group has a breadth of research expertise which focuses on the health effects of physical activity. Staff are currently involved in a variety of projects including the development and evaluation of school based interventions to increase childhood physical activity and to reduce obesity; work with industry to develop digital health platforms to improve patient treatment

(government funded); industry funded projects assessing the interaction between the human microbiome and dietary nitrate supplementation; studies on the role of small molecules produced by the gut microbiome in human health; ultrasound assessment of cardiac and vascular function both in elderly and paediatric populations; and the use of exercise as a treatment option in clinical populations such as in patients with multiple sclerosis (government funded). The team also includes qualified physiotherapists and a biomechanist who have research interests in rehabilitation, and biomechanics evaluation of performance both in sports performance and health contexts.

For further information contact Dr Nick Sculthorpe (nicholas.sculthorpe@uws.ac.uk)

Sport, Education and Society Group

The Group's research explores the development and delivery of sport from participation to performance, through the key themes of gender and equality, community sport and physical activity, applied sport performance, and coach education and practitioner development. The team has a broad range of expertise across the fields of sport psychology, sociology, physical activity, management, pedagogy, coaching education and practice, tourism, and development pathways. Current projects include work in women's boxing, walking football, masculinity and bodybuilders, curling and communities, falls prevention, use of fitness apps, sport psychologist training and development, coaching philosophies and development, performance analysis, and strength and conditioning in football.

For further information please contact Hayley McEwan (hayleymcewan@uws.ac.uk) or Laura Graham (laura.graham@uws.ac.uk)

What will I do?

You will take part in activities that will support your preparedness for doctoral study and worldwide research opportunities, including:

- Exposure to world-class experts and state of the art resources
- Structured sessions and workshops on
- Writing a research proposal
- Resources searching and research data management
- Funding and finance
- Interview skills
- Legal issues in research
- Enterprise

Outcomes of attending the summer school include:

- Detailed training on how to create a suitable PhD proposal
- A detailed understanding of the PhD process in the UK
- A fully completed application to UWS for a research degree
- An offer to study for a research degree at UWS*
- Certificate of attendance

You will also participate in social events, field trips, excursions and other confidence building activities in which you will make new friends, discuss opportunities for future study with students and staff, experience what it is like to study in the UK, and get an insight into Scottish culture.

Programme Dates: Sunday 15 July 2018 to Saturday 28 July 2018 (Closing date for applications is 25 May 2018). Places limited so book early.

Fees: £1,600 inclusive of tuition, accommodation, meals and visits.

Early Bird £1500 (book before 31 March 2018).

https://apply.uws.ac.uk:444/BANProd/bwskalog.P_DisplLoginNon

*subject to project availability and meeting the required entry standards



PROGRAMME

The Research Summer School programme is designed to allow everyone to feel comfortable from the start. Social events, field trips and confidence building activities support the academic work with world-class experts, using some of the most advanced and unique resources, preparing you for research opportunities worldwide. For some activities you may be allocated to a discipline specific group.

Sun 15 July	Mon 16 July	Tue 17 July	Wed 18 July	Thu 19 July	Fri 20 July	Sat 21 July
Arrival	AM Welcome, induction to UWS, and campus tour PM Research in the School of Science and Sport	All day Meetings with research leads and current students	AM Managing self, supervisor and time (student's view) PM Excursion	AM Discipline/ research pillar specific activities PM Resource searching and data management	AM Introduction to research methods and analytical tools PM The application process	Excursion
Sun 22 July	Mon 23 July	Tue 24 July	Wed 25 July	Thu 26 July	Fri 27 July	Sat 28 July
Free day	All day How to write a research proposal and writing workshop	AM Interview and presentation skills PM Proposal writing and interview preparation time	AM Surviving your PhD - funding and finance; legal issues in research PM Excursion	AM Interview and proposal feedback PM Enterprise Bootcamp	Celebration and presentation of certificates	Departure

https://apply.uws.ac.uk:444/BANProd/bwskalog.P_DisLoginNon



Eligibility

The Summer School is particularly suitable for home and international students and industry professionals with suitable qualifications for entry to PhD studies in the United Kingdom.

In order to be eligible for our summer school you should:

- have completed undergraduate study at honours level
- a minimum language requirement is preferred but not essential (i.e international students should have an IELTS score of 6.5 or above with no less than 6.0 in each skill)

Apply

Please visit https://apply.uws.ac.uk:444/BANProd/bwskalog.P_DisPLoginNon to apply. All fields marked with (*) must be completed and you must upload the following documents:

- Official transcript from your home university (in English)
- Official degree certificate (in English)
- Statement of support (200-word outline of the key reasons for applying for University of the West of Scotland's Science and Sport Research Summer School as well as stating your research interest)
- English language certificate and scores (non-native speakers only from outside of European Union) if available

Visas

If you are from outside the European Economic Area (EEA) and Switzerland, you can apply for a short-term study visa. Make sure you check the immigration requirements before applying (Visit www.gov.uk/study-visit-visa for more details).



FAQS

Where will the Summer School take place?

University of the West of Scotland's Paisley Campus and is the main location of the Summer School with activities at our and Hamilton Campus as appropriate (inter-campus travel will be provided). Field trips and events will take place across Scotland but all travel and accommodation will be provided.

What is included in the price?

The fee includes the tuition fees, accommodation at the University halls of residence, meals (full-board), and all organised travel.

Do I need a visa?

Yes, if you are from outside the European Economic Area (EEA) and Switzerland, you can apply for a short-term study visa. Make sure you check the immigration requirements before applying (visit www.gov.uk/study-visit-visa for more details). You will receive a confirmation of booking and you should carry this confirmation with you when travelling. You can apply for a visa up to 3 months before your date of travel to the UK. You should get a decision on your visa within 3 weeks.

Do I need a confirmation letter to obtain my visa?

You will need to attach an offer letter to your visa application. The offer letter is a 'Booking Complete' email, which is sent to you once you have booked and made full payment for the Summer School.

What countries do UWS students come from?

UWS is an international university with students from more than 70 countries worldwide and we make every effort students feel comfortable with us at every stage.

How do I get to Paisley?

University of the West of Scotland's Paisley Campus is located in the centre of Paisley town, and just a 10 minute train journey from Glasgow city centre. It is well served by public transport links and cycle paths. UWS supports and encourages students to make sustainable travel choices for their journey to Paisley Campus wherever possible. Glasgow International Airport is only a 30-minute walk away (10 minutes by car). More transport details visit www.uws.ac.uk/paisley

Who should I contact for further information about the Summer School?

For further information please contact:
Professor Catriona Tedford -
catriona.tedford@uws.ac.uk

Will I receive a certificate of completion?

Yes, you will receive a Certificate of Attendance that will be issued on completion of the Summer School.





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APPLY

apply.uws.ac.uk

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