

**Faculty of Engineering
and the Environment**



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Foreword from the Dean



I am delighted to have this opportunity to introduce you to the Faculty of Engineering and the Environment and to thank you for considering a role with us. I have been the Dean of the Faculty since August 2011. It is a privilege to lead one of the strongest Engineering faculties in Europe, with a strong focus on addressing real world problems that affect and are important to people and to the environment.

Results from the REF 2014 have confirmed our Faculty as the most powerful in General Engineering in the UK (UoA 15), based on the Times Higher Education (THE) definition. Furthermore, our Faculty was the most powerful individual single institution submission across all of the units of assessment in engineering. This independent recognition of the wide-ranging contribution to high-quality research and life-enhancing technology made by the University of Southampton is a tribute to the unstinting efforts of all our staff, and to the support we receive from key industry partners and research funders including the Engineering and Physical Sciences Research Council (EPSRC). The outcome is a true reflection of the strength of the Faculty, as we entered all eligible staff.

The Faculty is committed to providing education in an environment in which knowledge and understanding are created and also passed on. A wide range of disciplines are brought together to offer undergraduate and postgraduate programmes in audiology and environmental science as well as in acoustical, aeronautical, astronautical, civil, environmental, maritime and mechanical engineering. Links with industry are crucial to the impact of our research and education and we are proud to host University Technology Centres and Research Framework agreements with key partners including Airbus, Lloyds Register, Microsoft, Network Rail, Rolls Royce and Shell.

We have wide-ranging laboratories and testing facilities supported by a dedicated team of technical staff. Working at the cutting edge, we continuously invest in our facilities to ensure our researchers, staff and students have access to the equipment that will allow them to develop and test their pioneering ideas. Work is under way, following an investment of some £200M by Lloyds Register, UK government and the University, to create major, large scale experimental facilities for fluid dynamics, geomechanics and infrastructure education and research, underpinned and complemented by computational and data handling capacity. These facilities are located alongside Lloyds Register Global Technology Centre in Marine Engineering on our Boldrewood Innovation Campus.

We will continue our pursuit of excellence in all that we do and maintain our world-leading reputation. To achieve this we have high expectations of our staff. If you think you have the passion, commitment, skills and ability needed to support our mission, and the willingness to help us continue with our transformational approach, I look forward to receiving your application.

William Powrie FREng

Dean

The Faculty of Engineering and the Environment

The Faculty of Engineering and the Environment's mission is to change the world for the better through our research, innovation, enterprise and education. A key feature in both our research and our teaching is the application of sound fundamental scientific principles to the solution of real world problems that are important to industry, the environment and society. Every day, Southampton's engineers are applying new knowledge and methods to solve practical problems, benefiting society and improving lives.

- Four million new-born babies have been screened for hearing impairment by the NHS since 2008, using pioneering tests developed at Southampton
- Our traffic control algorithms and forecasting techniques are saving Transport for London £29M a year
- Our research on space debris has given major companies the confidence to invest £1 billion in space debris mitigation measures for their satellites since 2008

The Faculty is organised into four Academic Units covering a range of inter-related disciplines including acoustics, bioengineering, computational engineering, energy and climate change, fluid dynamics, geo-mechanics and environmental geotechnics, materials and surface engineering, signal processing and control, structures and solid mechanics, transportation, and water and the environment. The sectors we serve include aerospace, biomedical, civil, energy, environmental, maritime and mechanical engineering. You can view our research themes here www.southampton.ac.uk/engineering/research/themes.

The Faculty offers a range of programmes at undergraduate and postgraduate level. We receive over 6,500 applications each year from prospective students in the UK and overseas, enabling us to recruit and train the best engineers of the future from around the world. There are currently about 180 members of academic staff, 170 researchers, 120 technical and administration support staff, and 1400 undergraduate and 800 post-graduate students.

Curriculum reform has enabled us to create a common core and interdisciplinary student projects across all our undergraduate Engineering programmes. Our commitment to building on good practice in learning and teaching across our entire education portfolio has been recognised in professional accreditation exercises including nine Professional/Statutory bodies in the last two years.

We benefit from strong links with industry as well as government departments and research establishments. The Faculty hosts University Technology Centres for Rolls Royce and Airbus; and has strategic Partnerships with Lloyds Register, Microsoft, Network Rail and RNLI. We have a variety of outward-facing consultancy units including ISVR Consulting (noise and vibration), the Research Institute for Industry (RII), the University of Southampton Auditory Implant service (USAIS), and the Wolfson Unit for Maritime Technology and Industrial Aerodynamics (WUMTIA). These links are important in supporting and ensuring the impact of our research. The Faculty has a range of international links and a strong presence in collaborative UK, EU and global research programmes. We have a campus in Malaysia and a strong presence in Singapore, through a joint venture with A*STAR.

Multi-disciplinary research is carried out both within the Faculty, and across the University including through the Institute for Life Sciences (IfLS) and the Southampton marine and maritime Institute (SMMI).



Key facilities



Acoustics

The Faculty's Institute for Sound and Vibration Research was founded in 1963, to improve understanding of acoustics and vibration and their impact on community wellbeing and the quality and performance of engineering products. It hosts what are probably the most comprehensive university-based experimental acoustics facilities in Europe, with extensive laboratories including large reverberation and anechoic chambers in which engineering applications from building interiors and concert halls through reducing railway and aircraft noise to next generation high fidelity audio are investigated. An integral part of our approach is to develop solutions in parallel with fundamental research on understanding how humans hear and process sound. This has led to the development of pioneering techniques in cochlear implant devices, that have directly benefitted the lives of thousands of people through giving them the ability to hear and improve their auditory capacity.

These facilities are used extensively in connection with our Rolls Royce and Airbus Technology Centres in aircraft noise. The AB Wood 8 m × 8 m × 5 m deep water tank is currently being used for research with DSTL on target detection, Statoil (gas pipe leakage), NERC (quantification of seabed methane), and Network Rail (sonar for the detection of bridge scour).

Bioengineering and human factors

Bioengineering and human factors facilities include biomechanics, cell culture and tissue laboratories; category 2 biocontainment rooms, multiaxial tissue testing machines, incubators, an atomic force microscope and a range of optical microscopes; -20°C walk-in and -80°C freezers; an extensive hearing and balance laboratory suite, and a 6-axis motion simulator. These facilities are used in the development and testing of novel prostheses and researching human responses to vibration from power tools from hand drills to excavators and in transportation.

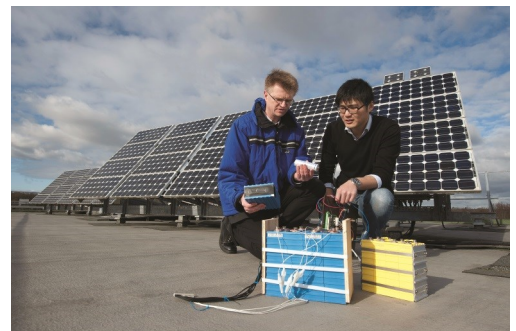


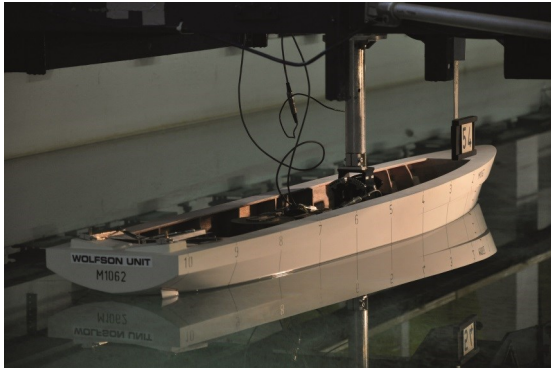
Computational engineering

Computational engineering facilities including the IRIDIS 3(15-15) and IRIDIS 4 super-computers and the Spitfire computer cluster. With 12200 cores (250 TFlops), Iridis 4 is one of the most powerful academic supercomputer in England, in the top 10 in Europe and top 100 in the world (based on a comparison with the most June 2013 Top 500 list). The Faculty's Spitfire cluster has a total of 864 cores, approximately 20TFlops peak performance, 4Tbytes of RAM and 30Tbytes of (RAW) disk storage. These facilities underpin the Rolls Royce UTC in computational engineering, and are used in research across the Faculty.

Energy and climate change

The interlinked problems of energy and climate change are perhaps the most important facing society today, and much of the Faculty's research is aimed at reducing energy consumption and promoting the adoption of renewable energy sources. Facilities include one stand-alone and two building-integrated instrumented photovoltaic arrays of 7.2 kiloWatt peak (kWp) and 12.5 kWp; various environmental data analysis and data logging systems; an experimental low head hydropower installation in Bulgaria; engine testing laboratories with Maxsys 900 raw exhaust analysis systems; extensive cryogenic laboratories used in the design of the superconducting magnets for CERN; a thick film fabrication facility for sensor research; and electrochemistry laboratories for battery and fuel cell research. In renewable energy, extensive use is also made of our hydraulics flumes and computational facilities, e.g. for the computer based modelling of tidal currents and the simulation of marine current energy converter arrays.





Fluid dynamics including the R J Mitchell Wind Tunnel

The R J Mitchell Wind Tunnel has been at the forefront of aerodynamic research for more than 30 years. Donated to the University in the 1980s, the R J Mitchell Wind Tunnel was originally built at the Royal Aircraft Establishment in the 1920s and has seen substantial use, upgrade and refurbishment ever since. Over the years the wind tunnel has been used extensively by industries including motorsport, automotive, aerospace, marine, maritime and performance sport.

Research using the R J Mitchell Wind Tunnel has assisted the British cycling team and others in their preparations for the Beijing 2008 and London 2012 Olympics. This was part of the Faculty's performance sports research for which we were awarded a prestigious Queen's Anniversary Prize for higher and further education in February 2012, for innovation and world-leading expertise in performance sports engineering. The University has an international reputation for excellence in this field, established over four decades. Our world-leading design and test capabilities, outstanding innovation and technical expertise are respected by and relied upon by high-performance sports organisations and people from around the world, notably in competitive sailing, Formula 1 racing, cycling and winter sports.

The new Fluid Dynamics Laboratory on our Boldrewood Innovation Campus houses a 140 m long towing tank, an anechoic wind tunnel, a wave basin, a matched refractive index apparatus and various other state-of-the-art experimental apparatus, with associated laser Doppler analysis and particle image velocimetry measurement and data acquisition systems.

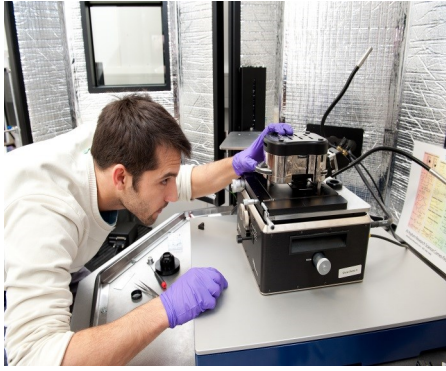


National Infrastructure Laboratory

Our National Infrastructure Laboratory supports research in critical infrastructure including large structures, railways, geomechanics and geoenvironmental engineering. Geotechnical testing facilities include resonant column, cyclic triaxial, hollow cylinder and cyclic simple shear apparatus; a low temperature / high pressure rig for testing gas hydrate bearing sediments; the internationally known Pitsea compression cell and consolidating anaerobic reactors used to investigate waste compression and degradation (on which similar equipment around the world is based); and in-house digital image analysis-based strain measurement equipment. A strong floor is able to accommodate reaction frames for testing columns up to 6 m high and beams up to 5.5 long. Our railway facility is being used in the EPSRC Programme Grants TRACK21 and TRACK2THEFUTURE, and to investigate the effect of sand ingress on a desert railway for Saipem-Dodsal-Technimont JV. The National Infrastructure Laboratory and our associated field measuring expertise supports our work in waste mechanics, landfill engineering and geotechnical transport infrastructure.

Materials and surface engineering

Our fundamental work in engineering materials and surface engineering has benefitted from investments associated with both the μ -VIS imaging centre and nCATS, the National Centre for Advanced Tribology at Southampton. μ -VIS is a dedicated centre for computed tomography (CT) providing complete support for 3D imaging science. The centre encompasses five complementary scanning systems supporting a wide range of sample sizes (imaged volumes up to 1.5 x 1 x 1 m) and resolution (down to ~200nm). These include a Nikon 225/450kV 'Hutch' walk in CT scanner; Nikon 225 kV HMX ST & Nikon CT160Xi CT scanners and an associated analysis suite. Other equipment includes a Jeol JSM-6500F field emission scanning electron microscope; micro powder processing and microfabrication facilities; 3D contacting and non-contacting profilometry; a range of optical microscopes; and associated metallography equipment.



Equipment in nCATS includes pin-on-disc test rigs; a twin disc roller tribometer; and various wear, abrasion and erosion test rigs. Much of this is used across the Faculty, from geomechanics (characterizing the structure of railway ballast using CT scanning) to bioengineering (prosthetic joint wear). Research in nCATS includes developing sensors and novel probes for tribological processes, the tribology of renewable energy systems, manipulating complex microbial communities at interfaces linked to tribological issues of fouling, friction and corrosion, and the use of advanced techniques to understand the human cellular and biological reactions and biotribological performance of joint implants.

Mechatronics, signal processing and control

Three laboratories are used mainly for research into the active control of noise and vibration and novel developments in personal audio, equipped with a variety of multi-channel rapid prototyping control systems based around SPACE and National Instruments hardware, Data Physics and LMS signal analysers and a range of microphones, loudspeakers, accelerometers and actuators. These underpin maritime noise and vibration control research that has attracted £1.5M in support from BAE Systems since 2010. Specialist electro-mechanical laboratories including thick-film and nanometrology clean rooms are used in research on novel actuators and vibration energy harvesting devices funded by the EPSRC Programme Grant in Engineering Nonlinearity.

Structures and solid mechanics

Our Testing of Structures Research Laboratory (TSRL) houses a variety of computer controlled servo-hydraulic testing machines ranging from 1 kN to 1.5 MN in capacity; a 100 kN high strain rate test machine; and bi-and tri-axial loading machines. Facilities for stress analysis and crack / damage monitoring include ultrasonic scanning, and a suite of CCD and high speed infrared cameras with associated image-based strain measurement software. Composite fabrication and processing facilities include vacuum assisted resin infusion and an autoclave (1 m dia. × 1.5 m long).

Transportation

Our Transportation Research Group (TRG) has an established reputation in transport systems operation, control and management, user behaviour, intelligent transport systems (ITS) and rail. Facilities include a driving simulator and STISIM Drive™ simulation software and a 36 m full-scale railway test track. Our unique on-road instrumented vehicle has been developed in-house over the past decade for use in driver behaviour analysis; it is equipped with a Race-logic VBox III dGPS system, IBEO ALASCA laser rangefinders, TRW Auto-cruise radar sensors, a Seeing Machines faceLAB system, digital video recording equipment and data loggers. The transportation data analysis facility has a range of planning and modelling software and traffic data collection and processing equipment, including a continuous data feed from the Southampton Urban Traffic Management Centre (City Watch).



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Water and environmental engineering and science

Facilities in water and the environment comprise a bioreactor laboratory (used in the development of anaerobic digestion from bench-scale to a commercially viable technology for the treatment of biodegradable municipal solid waste); a large-scale (100 m²) raceway reactor; a 320-litre photobioreactor; an analytical suite (shared with geoenvironmental engineering) housing a range of gas chromatographs, mass spectrometers, atomic absorption and near infrared spectrophotometers, calorimeters and autoclaves); a 24 m tilting flume; 60 m outdoor flumes used in ecosystem / infrastructure interaction experiments; 8 m and 12.5 m wave flumes; and field equipment including drones for remote sensing.

Leadership

The Faculty expects all of its senior staff to contribute high quality and collegiate leadership at an appropriate level, in pursuit of our strategic objectives and to maintain our world leading reputation. Leadership roles associated with education, research and enterprise include Associate Dean (Education, Enterprise, Infrastructure and Research); Head of Academic Unit; Programme Director; Senior Tutor; Head of group; Research Champion; Module co-ordinator etc.

We expect our leaders to

- ◆ Champion a positive approach to change and opportunity
- ◆ Communicate regularly and effectively within and across teams
- ◆ Encourage and embed a culture of positive diversity and equality
- ◆ Nurture and support staff to optimise talent
- ◆ Constantly seek to improve performance

Our Alumni

We aim to give all of our students not only a sound understanding of fundamental engineering scientific principles, but also the ability and confidence to apply those principles to the many new problems that will confront them during their careers. In this way, our programmes prepare our students for a life of professional leadership: some notable examples are as follows:

Jane Wernick, CBE, FREng.

Led a number of projects including, London Eye, Stansted Airport and the Young Vic Theatre., funder of Jane Werwick Associates.

Andrew Wolstenholme, OBE, FREng

Led major construction projects including Heathrow Express Rail Link, Terminal 5 currently works as Chief Executive of Cross Rail.

Penny Clark

Former sailor and British Olympian, ranked 1st in the world (2011-12) in 470 class. Now coaching the British Sailing Team Leading sailor, ranked 3rd in the world. Winner of silver and bronze World Cup events.

Sir George Buckley

Chief Executive 3M

Andrew Newey, OBE

Currently Chief Technical Officer of the Red Bull Formula One Team.

Stephen Payne, OBE, FREng, FRIn?, CEng

Chief designer of luxury ocean liner Queen Mary [2](#).

Our achievements

Staff regularly carry out reviews of research proposals for RCUK (EPSRC, BBRC and NERC) and international

research councils of Canada, Czech Republic, Germany, Hong Kong, Portugal, Netherlands, New Zealand, Norway, South Africa and Switzerland.

Staff also participated regularly in visiting research review panels for FCT, Portugal ; CORFO, Chile ; the Canadian Government; the US National Science Foundation; and the Italian National Evaluation Agency VQR exercise.

In addition to ~180 Plenary or Keynote conference addresses, and over three hundred other invited conference addresses, prestigious *NAMED LECTURES* given by members of the UOA include the Acoustical Society of America *Helmholtz-Rayleigh Silver Medal Lecture* 2013 (Leighton); the ICE *James Forrest Lecture* 2013 (Powrie); the British Geotechnical Assn. *Rankine Lecture* 2010 (Clayton); the Inst. of Metal Research *Lee Hsun Lecture* 2009 (Langdon); the Inst. of Acoustics *R W B Stephens Medal Lecture* 2009 (Leighton); and the Inst. of Sound and Communications Engineers *Peter Barnett Memorial Lecture* 2008 (Leighton).

Membership or fellowship of learned societies

Staff hold 48 fellowships of relevant professional and learned society institutions (e.g. FICE, FIMechE, FRINA, FInstPhys, FIMMM). Professor Steven *Elliott*, Professor William *Powrie*, Professor Andrew *Keane* and Professor Tim *Leighton* are Fellows of the Royal Academy of Engineering (FREng), and Professor *Leighton* is a fellow of the Royal Society (FRS).

Journal editorships

Journal editorships held by members of the Unit of Assessment since 2009 include:

Acoustics: *Journal of Sound and Vibration.*

Energy and climate change: *International Journal of Marine Energy, Global Atmosphere and Ocean Systems, European Geosciences Union Ocean Science.*

Fluid dynamics: *International Journal of Marine Energy, IMechE Journal of Engineering for the Maritime Environment, Journal of*

Marine Science and Technology, International Journal of Maritime Engineering, Acta Mechanica Sinica.

Geotechnical and geoenvironmental engineering: *Géotechnique, Journal of the South African Institution of Civil Engineering, ICE Waste and Resource Management.*

Materials and surface engineering: *Journal of Composite Materials, Materials Science and Engineering, Proceedings of FD156 Faraday Discussion in Tribology.*

Mechatronics, signal processing and control: *Microelectronics International.*

Structures and solid mechanics: *Strain, IMechE Part M Journal of Engineering for the Maritime Environment.*

Transportation: *Transport, Journal of Transport Policy, Ergonomics.*

Water and the environment: *Global Atmosphere and Ocean Systems.*



Major Awards and prizes since 2010 include:

Acoustical Soc. of America Helmholtz-Rayleigh Interdisciplinary Silver Medal

Acta Materialia Gold Medal

Institute of Chemical Engineering Award for Water Management and Supply

Japan Society of the Promotion of Science Award

Lloyd's Science of Risk Prize

Institute of Ergonomics and Human Factors Sir Frederick Bartlett Medal

Journal of Sound and Vibration P E Doak Prize

Queen's Anniversary Prize for Higher and Further Education

Institute of Metal Finishing Jim Kape Memorial Medal

University College London Centre for CO₂ Reduction Gold Medal

Royal Institution of Naval Architects (RINA) Small Craft Group Medal

Institute of Physics Prize for a significant contribution by an ECR 2011

Technology Strategy Board KTP Award for Engineering Excellence 2011

Gesellschaft für Arthroskopie und Gelenkchirurgie (AGA) Award 2011

Royal Society Brian Mercer Award for Innovation 2011

Institute of Metal Finishing Westinghouse Prize 2011 NACE International Fellow Honor 2011

IMechE Donald Julius Groen Prize 2011, for outstanding achievements in tribology

Chartered Institution of Highways and Transportation Award for Excellence 2010

Japan Society of the Promotion of Science Award

Chartered Institute of Wastes Management Waste Regulation Award

Institution of Civil Engineers Baker Medal



Diversity and Equality and Athena SWAN

We believe that excellence will be achieved through recognising the value of every individual. We aim to create an environment that respects the diversity of staff and students, enabling them to achieve their full potential, contribute fully and derive maximum benefit and enjoyment from their involvement in the life of the University.

To this end, we acknowledge the following basic rights for all members and prospective members of our community:

- to be treated with respect and dignity
- to be treated fairly with regard to all procedures, assessments and choices
- to be encouraged to reach one's full potential

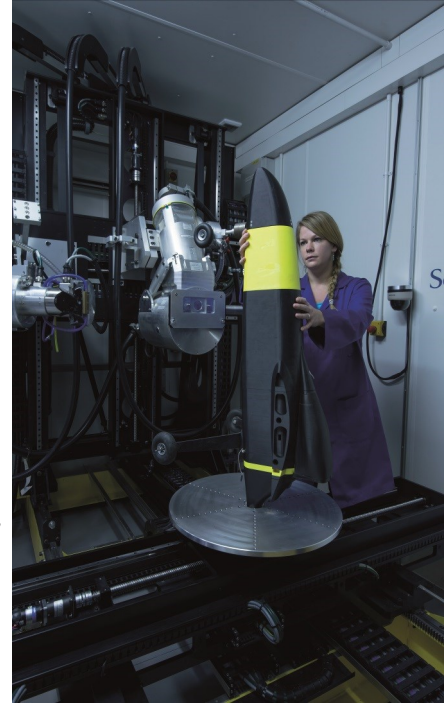
These rights carry responsibilities and we require all members of our community to recognise these rights and act in accordance with them. In addition, we will comply with all relevant legislation and good practice.

Our Athena SWAN bronze award, received in 2013, demonstrates our on-going commitment to the advancement of gender equality; representation, progression and success for all.

The Athena SWAN charter was established to encourage and recognise commitment to advancing the careers of women in STEMM (Science, Technology, Engineering, Mathematics and Medicine) employment in higher education and research.

The Faculty have rolled-out schemes that will support the enhancement of career progression for all staff, but particularly women; and also ensure more young women join our student programmes including:-

- ◇ The academic track New Frontiers Fellowship awards
- ◇ A mentoring system has been established that provides mentors for all staff, particularly early career researchers (ECR's).
- ◇ Our outreach strategy extends visitations to lesser privileged schools and female only schools.
- ◇ A workload model for staff that takes into consideration diverse responsibilities
- ◇ We support flexible working, career breaks and have a range of family friendly policies.
- ◇ All members of a recruitment and selection panel will have undergone diversity and equality training and unconscious bias. The constitution of panels will always support the diversity of staff.



The University

The University of Southampton's roots date back to the Hartley Institute of 1862 when local wine merchant Henry Robinson Hartley left his entire estate to the people of Southampton to promote the study and advancement of science and learning. Since its formation it has become one of the leading institutions among the UK's Russell Group of Universities and operates globally, where it is recognised for its research and academic excellence.

Mission statement

As a University community we will change the world for the better through our research, education, innovation and enterprise. We are committed to further improve our position as a leading research university of international standing, distinguished by our enterprise. We aspire to be a place of opportunity and inspiration that attracts talented staff and students regardless of their background.

Our vision - distinction, and globalisation

To be a distinctive, global leader in education, research and enterprise. We will grow our academic organisation to fully meet the expectations and ambitions of our staff, students and wider society.

Our values

All of our activities will be underpinned by the values that guide our performance:

EXCELLENCE - we aspire to be the best in all we do: inspiring the confidence and ambition that enable our staff and students to reach their full potential.

CREATIVITY - we are imaginative and resourceful - thriving in an environment that values independent thought and encourages originality and innovation amongst its staff and students.

COMMUNITY - we achieve more together: we are an inclusive, collegial community that builds the tolerance, respect, and mutual support amongst staff and students.

INTEGRITY - we do what is right: we are committed to the highest standards of personal conduct, recognising that honesty and integrity engender trust between and within our University communities.

Our guiding principles

We operate in a rapidly changing environment that requires us to compete and collaborate with universities, organisations and businesses around the world. We will act according to a set of guiding principles designed to deliver effective and sustainable outcomes in pursuit of our mission and vision. We will be:

AGILE - identifying and taking opportunities to improve our activities and organisation, demonstrating openness to change and adaptability.

EMPOWERING - enabling our staff to take bold steps and to act with confidence in advancing the University strategy.

FOCUSSED - concentrating resources and efforts in areas where we can be most effective, ceasing unproductive activity in order to build critical mass in areas of competitive advantage.

These principles will be achieved by being an organisation that is:

Networked – seeking out partnerships with universities, organisations and businesses that contribute to the advancement of the University strategy.

Competitive - creating an organisation and environment that overtly supports and rewards excellence, benchmarking all we do against our ambition to be a global leader in higher education.

Impactful - making a distinctive contribution to society and the economy through our enterprise, seeking novel and effective ways to optimise the beneficial impact of our education, discovery and invention.

Transparent - creating an organisation in which we are accountable in our decision-making.

University Facts and figures

Staff population

Total of 5,500 staff across our campuses

We attract leading academics from across the globe

Finances

Received £110m in research funding in 2013/14

Total EPSRC funding portfolio of £188m, around four percent of the market share

Our contracts with industry are worth £35m

Our annual turnover exceeds £435m

We have more than 400 active patent families with an annual income of £500,000

League tables

Southampton is in the top 1% of global universities (QS world university rankings 2014)

Ranked 94th in the world (17th in the UK) - QS world university rankings 2014

Ranked 20th in the Complete University Guide 2014

Our degree programmes

Undergraduate degree programmes: more than 200, in 70 subject areas ranging from accounting and aeronautics to web science and zoology.

Postgraduate programmes: more than 200, covering a huge range of taught courses and PhD programmes.

Student population

- ◆ Total number of students: 23,134
- ◆ Total number of postgraduate students and researchers: 4,000
- ◆ Total number of overseas students: 5,161
- ◆ Countries represented: more than 135
- ◆ Our 200,000 alumni community spans 178 countries

Student satisfaction

- ◆ 86% of our students are satisfied with the overall quality of their course (National Student Survey 2014)
- ◆ 88% of our students are satisfied with the quality of teaching they receive (National Student Survey 2014)
- ◆ 90% of our students are satisfied with the quality of learning resources available to them.
(National Student Survey 2014)

Campuses and facilities

- ◆ Seven campuses: one of the seven is based in EduCity@Iskandar, Malaysia. The others are located in the South of England including the recently transformed Southampton Boldrewood Innovation Campus.
- ◆ Virtual learning environments: a comprehensive range of online learning resources including specialised materials for each subject area and facilities for remote group working.
- ◆ Continuing investment in world-class facilities and learning environments has resulted in several award winning buildings including the EEE building (£18 million, 2007), Mountbatten building (£55 million, 2009) and Life Sciences Building (£50 million, 2010).
- ◆ Five libraries containing over three million books, journals and reports, plus around 50,000 e-books.
- ◆ Sports facilities include the state-of-the-art, £8.5 million Jubilee Sports Centre.

Enterprise and partnership activities

- ◆ In the past few years, strategic partnerships have been developed or expanded with GSK, DstL, QinetiQ, IBM, BAE Systems, Lloyds Register, Depuy, Philips, Vitacross, Eli Lilly and Google.
- ◆ At any one time we are working with over 1,000 external organisations
- ◆ 15 spin out companies since 2000
- ◆ Member of the Science and Engineering South Consortium: one of the most influential clusters of research intensive universities in the world.
- ◆ Part of the Worldwide Universities Network
- ◆ We have six University Technology Centres with leading organisations Microsoft, Airbus, RNLI, Lloyds Register and Rolls Royce.
- ◆ Our partnership with Lloyds Register represents the largest university business collaboration of its kind in the UK
- ◆ Businesses benefit from our world-leading expertise and state-of-the-art facilities through Knowledge Transfer Partners.

Employee Benefits

Family Friendly

- On-site nursery
- Flexible working
- Career breaks
- Special leave
- Childcare vouchers

Relocation Assistance

- Allowance *
- Relocation assistance from our removal partner

Employee

Benefits

Financial Benefits

- Car parking scheme
- Cycle to Work scheme
- Interest free loans
- Staff discounts at local and regional outlets
- Staff Achievement Awards
- Vice-Chancellors Award

Well-being and Health

- Occupational Health
- Eye tests
- National dental plan
- AXA PPP personal healthcare
- Jubilee sports centre
- Mediation Service
- Employee Assistance Programme

Learning and Development

- Annual appraisal
- Institute of learning innovation and development
- Mentoring
- Conferences

On-campus facilities

- Shops
- Hairdresser
- Travel agent
- Turner Simms Concert Hall
- Nuffield Theatre
- John Hansard Gallery
- Library
- Book shop

*if the qualifying criteria are met.

The City of Southampton



A thriving and modern city, steeped in history and culture, while less than an hour away the New Forest National Park offers vast open heathland and beautiful forest.

The city offers a vibrant mix of recreation, culture and entertainment – from restaurants, cafes, bars and nightclubs to cinemas, sports facilities and internationally acclaimed arts venues. Close to the city centre, the University forms an integral part of this dynamic, multicultural city.

Southampton has a fascinating history. It was from Southampton in 1415 that Henry V set sail for Agincourt, The Pilgrim Fathers first set sail from here in 1620 on their historic journey to the New World and the ill-fated Titanic sailed from Southampton in 1912. Southampton has a rich aviation heritage, with the Spitfire, the fighter aircraft that won the Battle of Britain, developed in the region in the 1930s.

Southampton has one of the biggest commercial ports in Europe, and the city is known across the world as the home of the giant cruise liners, Queen Elizabeth, Queen Mary 2 and Queen Victoria. With a coastal location, there is a vast range of opportunities for sport and leisure, with a major focus on watersports, sailing and ocean racing.

Just over an hour from central London, Southampton has excellent transport links to the rest of the UK and internationally, by road, rail, sea and air. Our award winning unilink bus service connects all Southampton campuses and halls of residence, the city centre, the airport and railway stations.

The historic city of Winchester has a rich cultural heritage, complemented by a lively atmosphere and a wide variety of pubs and restaurants, museums, theatres and galleries.

To see for yourself what the University and surrounding area has to offer view:

www.southampton.ac.uk/virtualopenday

www.southampton.ac.uk/visitus/cityandregion