Candidate Information Pack

Appointment of:

Professor of Net Zero Maritime Systems

School of Engineering

The Faculty of Science, Agriculture and Engineering
The Post

The School of Engineering is recruiting a Professor of Net Zero Maritime Systems. This is an exciting opportunity to join one of the leading Engineering Schools in the UK.

We are a world class research-intensive university, delivering teaching and learning of the highest quality and playing a leading role in the economic, social and cultural development of the North East of England. Attracting and retaining high-calibre people is fundamental to our continued success.

The position is based in the School of Engineering within the discipline of mechanical engineering and marine technology to address the challenge of decarbonising maritime systems in order to meet net zero targets in light of the climate emergency. It is expected that the post holder will have cross-faculty ambition both in research and research-informed teaching. The role will have the opportunity to support and build upon our suite of undergraduate and postgraduate programmes and the University’s growing interest in the skills agenda underpinning increased electrification.

It is intended that the post will have a broad focus bridging technology, policy, regulation and application, addressing the challenges and opportunities that the decarbonisation and net zero agendas pose. These include areas related but not limited to:

- Intelligent and smart systems exploiting data potential
- Safety, cyber security and resilience
- Autonomy
- Alternative energy vectors and propulsion systems
- Emerging technologies
- Intermodality and landside infrastructure

We welcome interest from applicants across the broad breadth of maritime systems including shipping and other offshore assets, ports and landside infrastructure, energy and propulsion systems, policy and regulation, and data and intelligence.

The Professor of Net Zero Maritime Systems will join a renowned team of experts in transport, sustainability, energy and propulsion, many of whom are aligned to Centres of Research Excellence in Mobility & Transport and in Energy. In addition to bringing together disciplines within the School of Engineering and from across the University, the role will also engage with charitable groups and industry/business partners who provide us with financial, logistical and in-kind support for our research projects.

Specific Responsibilities of The Position

1. Leadership in research and scholarship (broadly construed to include professional work as well as REF appropriate outputs) in the School in collaboration with relevant Directors of Discipline, professoriate, and academic groups.
2. Growing the capability and international reputation for research and education excellence, and wider engagement, associated with maritime systems.
3. Leading the development of maritime systems expertise with research, education and engagement elements across the University.

4. Securing external research funding from relevant funding bodies or industry.

5. Building strategic links with relevant industries.

6. Supervising research students (PhD/MPhil) and postdoctoral associates.

7. Delivering innovative teaching for existing UG and PGT programmes and giving leadership to new developments in the Electrification skills agenda.

8. Advancing the vision and strategy of the wider School of Engineering.

9. Leading the enhancement of interdisciplinary collaboration and impact across Schools in Science, Agriculture and Engineering (SAGe) Faculty and Faculty of Humanities Arts and Social Sciences and Faculty of Medical Sciences by actively contributing to existing relevant Centres of Research Excellence (NUCoREs).

10. Perform other duties as required by the academic group lead, Director of Discipline and/or Head of School.
### Knowledge, Skills and Experience

A strong track record of publishing research outputs in internationally excellent journals and at high quality academic conferences.

Evidence of an excellent international reputation in the field of maritime systems.

Experience of initiating, managing and delivering successful multidisciplinary and/or multi-partner large scale projects.

Evidence of attracting major research funding in areas relevant to Maritime Systems.

Extensive track record of teaching at undergraduate and postgraduate level with evidence of developing and disseminating successful learning approaches.

Demonstrable PhD supervision capability and experience, from project inception through to completion.

Ability to significantly contribute to research, teaching and curriculum development.

Advanced skills and in-depth knowledge and understanding of maritime systems.

Demonstrable capability to inform industry, governments and regulatory bodies in relevant areas.

Strong and demonstrable links with national and international industry, regulatory bodies, policy makers, and world-leading research institutions.

### Attributes/Behaviours

Awareness of self and others: recognising and limiting bias, showing empathy and perceptiveness, cultural sensitivity, emotional control.

Independence: challenging the status quo, seeking clarification, questioning assumptions, encouraging diverse views.

Performance focus: focus on goals and priorities, an entrepreneurial spirit, setting high standards, supporting a learning culture.

Professionalism: care and diligence, investing in self-development, taking responsibility, acting with integrity, championing the organisation.

Ethical outlook: expressing the University’s values, displaying high standards of conduct, managing institutional and individual priorities, identifying, and managing conflicts of interest, treating others fairly.

### Qualifications

An excellent first degree and PhD in a relevant field.

A Higher Education Teaching qualification or equivalent experience.
The key areas of activity of all academic staff, including professors, at Newcastle University are summarised in the Academic Job Summary. The information below is designed to build upon the Academic Job Summary and specify the levels of expertise and contribution expected of professors. Progression to professorial status at Newcastle is governed by the Procedure and Criteria for Promotion to a Personal Chair.

Professors at Newcastle University are leaders within the academic community. They have a national and international reputation in their academic field and demonstrate leadership both within the University and externally, with recognition often extending beyond academia into relevant policy and practice communities. Like all academic members of staff, unless explicitly specified to the contrary, professors are expected to do research, and expected to do teaching. Engagement is not normally a separate third activity, but in the main derives from research and teaching activities. The University engages with civil society as an educational and research institution, and therefore the expectation is that engagement activities will be carried out not just in the sense of good citizenship, but specifically based on academic expertise and experience.

Professors may or may not have line management responsibilities such as those carried out by the Head of an Academic Unit. However, it is expected that all professors should provide leadership within their academic discipline and make an appropriate contribution to the management of their academic unit, faculty and/or to the University.

Depending on the academic focus of the particular role performed by an individual, the following activities and achievements, viewed within the context of their academic discipline, are illustrative of the normal level of expectations for those holding a professorship at Newcastle University:

**Research and Innovation**
- Achieve high-quality outputs, of high impact, in top media for the relevant discipline; this is likely to include publications in top-tier, high-impact journals and in some disciplines research monographs, but may also include exhibitions, performances, commissioned research reports, and a range of other outputs.
- Achieve consistently high levels of research income from peer-reviewed funding sources.
- Lead and direct a substantial programme of research (which may include research groups and/or facilities) often including responsibility for the mentoring and development of academic colleagues.
- Achieve and maintain an international reputation in the discipline and, where appropriate, contribute to societal challenge themes.

**Teaching and Learning**
- Publish highly regarded text-books and other teaching materials.
- Lead in the design and implementation of programme, curricular and related innovations that make a major positive contribution to the student learning experience and the academic and financial success of the academic unit.
Establish and maintain national or international eminence through the exercise of leadership within professional bodies and participation in policy circles. Create and/or lead substantial, multi-institutional, regional, national or international educational programmes or facilities.

Make a sustained, high-quality contribution to pedagogic research.

Engagement

- Make a major contribution to intellectual, cultural, social or economic life at regional, national, or international level.
- Lead and direct substantial and financially positive commercial activities and collaborations.
- Play a leading role in the development and/or application of public or professional policy or practice at national, European or international levels.
- Develop and maintain innovative and/or creative partnerships with external bodies (public, private or voluntary), to address societal challenges in line with University strategy.

Professorial Band Profiles

In order to determine professorial pay in a transparent and equitable manner, the University references a three band pay structure within the professorial grade. This structure is designed to appropriately reflect and reward continuing scholarly attainment and achievements, the exercise of academic leadership, and contributions made to the life, work and sustainability of the University community.

The band profile descriptions below are used in assigning all Newcastle professors to an appropriate point on the professorial scale.

Band 1

Band 1 is the normal entry band for newly promoted Newcastle professors. It is also sufficiently broad to allow progression within the band as professors develop their career and standing.

For appointment or promotion to this level, a professor will have a national and international reputation in the relevant discipline with established evidence of academic excellence. The detailed criteria are set out in the University’s professorial promotions criteria.

Professors who achieve movement to a higher point within Band 1 will be demonstrating continued development in the role as measured against the generic activities expected of professors (described above) and the particular requirements of the role in question.

Band 2

Professors who reach this band are working at a level significantly higher than the entry level for a Newcastle professor. Individuals have a sustained, distinguished record of internationally-recognised achievement in their field; their expertise is in significant demand from partners within or beyond academia and/or they are asked to fulfill major international roles within the discipline.
They will be national leaders in their field and have established themselves as an acknowledged international authority. Their academic work is likely to have made a significant and lasting mark.

Some professors may progress from Band 1, their role and contribution having grown sufficiently to be recognised in this way. Senior lecturers or readers are not normally promoted directly to Band 2. External appointments are only made to Band 2 where the professor is already well established at another institution or working at a comparable level outside academia.

**Band 3**

This band is reserved for the small number of professors who bring great prestige to the University through their sustained record of academic achievement at the highest international level. This may take the form of leadership of world-leading research, election to the most prestigious learned societies, a leading role in high-impact interdisciplinary collaborations with a broad range of academic, industrial or governmental partners, or a position of unequivocal international authority. Their work will be recognized internationally as outstanding and they will have made a formative and lasting contribution to their field of study.

Band 3 professors may have progressed from Band 2, or in exceptional circumstances may have been appointed directly to this band. External appointments are only made to Band 3 where the professor has achieved international status of the highest level. Authority from the Vice Chancellor is required to appoint to Band 3.

**Pay Ranges**

Ranges are based on professorial pay scale effective from 1 August 2021)

- Band 1: £67,585 - £74,225
- Band 2: £75,932 - £100,924
- Band 3: £103,080 +

**Annual Pay Review Process**

Cases for pay progression will be considered through the Professorial Pay Review process, which commences in February each year, with decisions taking effect the following 1 August.
The School of Engineering

Engineering is a single integrated School that brings together all engineering disciplines to realise fully the potential and strength of cross discipline teaching and research. The school is organised around four main disciplines:

- Chemical Engineering
- Civil and Geospatial Engineering
- Electrical and Electronic Engineering
- Mechanical Engineering and Marine Technology

Research spans these disciplines, from fundamental principles to multi-disciplinary projects. We tackle global challenges such as climate change, sustainable energy, transport, clean water supply, and waste management, enabled by world-class laboratories and facilities.

We celebrate in 2021 – 2022 the 150th anniversary of the establishment of the College of Physical Science at Newcastle in 1871. The college went on to become Armstrong College, then Kings College and finally Newcastle University. This historic milestone celebrates 150 years of Engineering education at the University.

At the same time as this celebration, we are also entering a period of significant investment in the School of Engineering estate – through the £70M redevelopment of the Stephenson site. The new Stephenson Building will have state of the art facilities for learning, research and industrial engagement.
The Faculty of Science, Agriculture and Engineering (SAgE)

SAgE undertook a major re-organisation in August 2017 moving from ten to five academic units; bringing together hubs of disciplinary excellence at our Newcastle campus in key areas; Computing, Mathematics, Statistics and Physics, Natural and Environmental Sciences and Engineering, which is also the mainstay of our Singapore campus operation. We have grown our footprint in Singapore over the last four years with the addition of the Newcastle Research and Innovation Institute (NewRIIS) - a >1000 m² space for postgraduate and colleague researchers, CPD training and a base to work with industry - alongside an existing operation run jointly with the Singapore Institute of Technology, teaching more than 900 undergraduate students.

We have a strong research presence with national and global leaders in key areas including: Bio-Systems (understanding and manipulating biological systems for the benefit of society and the environment); Future Mobility (changing the way we move: from prosthetics to propulsion); Environmental Sustainability & Resilience (understanding our relationship with the environment to enable a secure future for all); the Future of Energy (discovering and developing efficient and sustainable generation, storage and delivery of clean, secure and affordable energy for all), and Industry & Society (using data to revolutionise the way we live). The existing success of SAgE in these areas is currently demonstrated through our leading role in key components of the UK’s research infrastructure such as the National Innovation Centre for Data, National Centre for Innovation in Rural Economy, National Centre for Energy Systems Integration, the UK National Gear Metrology Laboratory and National Centre for Subsea and Offshore Engineering. The £18m GCRF Water Security and Sustainable Development Hub highlights our interdisciplinary work – led from the SAgE Faculty, working with colleagues in the Faculty of Humanities and Social Sciences.

We host the National Green Infrastructure Facility and the Newcastle Urban Observatory, the largest open real-time urban environmental monitoring network in the world with over 2 billion data points collected and processed to date. We offer unrivalled opportunities for deploying findings from our research at scale with two experimental farms allowing us to tackle the most pressing problems in food security and land management. The deepest research borehole in the country, located on Newcastle Helix is driving innovations in low carbon geothermal energy research and jointly with our strategic partner, Northumbrian Water, we operate the unique BEWISE facility which allows us to test novel biotreatment technologies in fully instrumented test beds on an operating wastewater treatment plant. This is key to translating innovations from our fundamental research to field-proven real world solutions.

Our standing in driving electrification and decarbonisation is recognized through our leadership of the recently announced Driving the Electric Revolution initiative with four regional industrialization centres and more than 30 partner research and technology organisations. We are also members of
major consortia such as the £65M Faraday Battery Institution, the UK Energy Network Supergen, the Centre of Excellence for Sustainable Advanced Manufacturing and the Alan Turning Institute and have been designated an Academic Centre of Excellence for Cyber Security Research.

Our discipline-based discovery-led research tackles some of the biggest challenges faced by the environment, economy and society. The Faculty has significant industry and policy links facilitating our impact; for example we have ‘Principal Partner Status’ with Siemens, a longstanding partnership with Northumbria Water Group as well as strong partnerships with Procter and Gamble, multinational software company Red Hat, domestic appliance giant Dyson and global engineering consultancy Arup.

We are also the strategic science partner of the Food and Environmental Research Agency and provide the Chief Scientific Advisor to the Department for Transport. Our researchers work closely with significant international bodies including the IPCC and the IUCN, driving policy to mitigate climate change and biodiversity loss. We also enjoy EPSRC Tier 1 Partnership Framework status.

The Faculty’s continued success and planned growth builds on the region’s and University’s history of world leading innovation. We aim to further develop our research strength in our identified key areas and integrate critical aspects of the latest research in these areas into our taught offering in close partnership with industry leaders and colleagues in the Faculties of Medical Sciences, and Humanities & Social Science. The re-organisation of SAgE opened opportunities for integrated strategic investment allowing notable strides forward in delivering our vision. We have, for example, committed significant strategic investment in a £68M re-development of our Stephenson Building. The project will create a fresh focus for Engineering at Newcastle offering flexible accommodation for research, engagement and education in a way that is mutually supportive and enhancing. This represents an underlying ethos of our vision, unusual amongst our peers, to fully integrate key functions across the Faculty. Our established Singapore presence also represents an exciting opportunity to further grow our international presence and activity from South East Asia.
Introduction to Newcastle University

In 2018 The University launched our Vision and Strategy. We are a world-leading university, advancing knowledge, providing creative solutions and solving global problems. We are a people-centric organisation that values our colleagues and students. We seek to attract the most talented people from around the globe with the enthusiasm and commitment to be part of our exciting future.

Newcastle University exists for the public benefit to advance education, learning and research. Our objective is to build on this core purpose and, in doing so, provide new knowledge and creative solutions that make a positive impact. We aim to work collaboratively with our many external partners to shape brighter futures, grow the economy and champion social and environmental justice. We will maintain and build upon our longstanding values: commitment to equality, diversity and inclusion, and social and environmental justice, while continuing to respect and protect the principle of academic freedom.

We are a world-leading university, advancing knowledge, providing creative solutions and solving global problems.

The University’s three aspirational values are:
1. Excellence;
2. Creativity;
3. Impact.

The University’s guiding principles are:
1. Working together;
2. Visibly leading;
3. Freedom and opportunity to succeed;
4. Responding to current and future challenges.

We are world-class at many things, but particularly recognised for our expertise in these areas:
- Ageing and Health;
- Cities and Place;
- Culture and Creative Arts;
- Data;
- One Planet.

Newcastle University is a thriving international community of 29,900 undergraduate and postgraduate students from over 140 countries worldwide, studying at our main campus in Newcastle and at Newcastle University in Singapore and Newcastle University Medicine Malaysia.

Ranked in the top 150-200 of world universities, we aspire to be a people-focussed university that harnesses academic excellence, innovation and creativity to provide benefits to individuals, to organisations and to society as a whole. The University is a member of the Russell Group of research-intensive universities in the UK.

The University traces its origins to 1834 and the need to address the economic, health and social demands of an industrial city. We are located in, and have contributed to, a region with a tradition of invention and innovation spanning more than 200 years, from the opening of the first permanent
public railway line in 1825, through the birth of Pop Art in the 1940s to obtaining, in 2017, the world’s first licence for a pioneering technique to eradicate inherited mitochondrial disease.

The University’s main campus is located in the centre of Newcastle upon Tyne, the cosmopolitan capital of the North East of England. The city enjoys a worldwide reputation for the quality of its cultural and social life.

**Academic Excellence**

In June 2017 we were awarded Gold status in the TEF (Teaching Excellence Framework), and in 2018 we were ranked 9th in the *Times Higher Education* Ranking of Teaching in Europe, a ringing endorsement of our long tradition of excellence in teaching.

The 2014 Research Excellence Framework (REF) placed Newcastle University 16th in the UK for Research Power and the vast majority of our research (78 per cent) was assessed to be world-leading or internationally excellent. We also ranked:

- 4th amongst UK medical schools for Clinical Medicine Research Intensity.
- 3rd in the UK for English (1st for impact), and in the top 12 for Geography, Architecture and Planning, and Cultural and Media Studies research quality.
- 1st in the UK for Computing Science research impact, 3rd in the UK for Civil Engineering research power and 11th in the UK for Mathematical Sciences research.

We are a three-times winner of the coveted Queen’s Anniversary Prizes for Higher and Further Education, most recently in 2013 for our research into sustainable rural economies and societies, which has influenced policy and practice around the world. In 2005, we gained the Prize for our innovative solutions to minewater pollution, and in 2009 we were recognised for research into ageing.


There are a number of characteristics that have defined us over the years and which continue to be prominent features of our Vision. These include our clear focus on education and research that is of direct relevance to our city and region (we are a member of the Civic University Network), a culture of openness and transparency and longstanding commitments to equality, diversity and inclusion and academic freedom. We are a signatory of the Magna Charta Observatory and are a lead institution in their Living Values project which includes a focus on inclusive education. We hold an institutional Athena SWAN silver and are working towards Race Equality Charter accreditation. We are also proud members of the Business Disability Forum and a Stonewall Global Champion. This year we were the first university to become a member of the Employer with a Heart charter. In 2020 we were recognised in the Times Higher Education (THE) Global Impact rankings as joint 11th in the world for our activities in relation to the Sustainable Development Goals and we were 6th in the world for our work on Sustainable Cities and Communities. We have a proud history of championing social justice now embodied in our flagship Education building, the Frederick Douglass Centre, and we are dedicated to embedding it in our research, education and engagement activities.
Globally Ambitious

We have extended our reach beyond the UK by establishing a presence in Singapore and Malaysia. In 2008, in partnership with the Singapore Institute for Technology, we opened our Newcastle University in Singapore where we now offer four degree programmes supporting more than 700 students annually, together with a number of Masters programmes.

With the opening of Newcastle University Medicine Malaysia (NUMed) in 2011, we became the only UK university to have a fully owned medical campus overseas. NUMed delivers degrees in medicine and biomedical sciences to 800 students. The first doctors from NUMed graduated in June 2014.

Excellent Colleagues and Students

In 2015, Newcastle University won the Outstanding Leadership and Management Team category in the Times Higher Education Leadership and Management Awards for the second time in four years, receiving praise for our innovative programmes to develop leadership throughout the University and improve the diversity of those in senior positions and we continue to put leadership development at the heart of our People Strategy.

In terms of colleagues and student numbers, the University has recently grown more rapidly than comparable institutions, with income of more than £550 million in 2019/20. We are one of the largest employers in the North East of England, with approximately 6,600 colleagues. Our recent engagement survey (2019-20) says our colleagues enjoy working here and we were placed in the top five of the best places to work, according to the Best UK University Workplace survey carried out by the THE magazine in 2014.
Investment in People

The University has a strong record of accomplishment and is proud of its achievements to date in its investment in people. As a people-centric organisation we have and continue to invest in our colleagues:

- Our Culture & Values Programme: investment in bringing university values and guiding principles to life through 5 clearly defined workstreams including transformational Leadership & Management Programme;
- A growing Research Culture which includes: the appointment of a Dean of Research Culture, our full commitment to the Concordat and the NUAct Fellowship Scheme (Newcastle University Academic Track) - Investing £30 million to build a diverse community of 100 NUAcT fellows over 5 years;
- NUCoREs - We deliver important research missions through a growing portfolio of Newcastle University Centres of Research Excellence (NUCoREs). Our Research Strategy sets our ambition for the growth of people and resources. NUCoREs represent priority areas where this growth will occur;
- We are the proud recipients of an institutional silver Athena SWAN award demonstrating our achievements and ongoing commitment to achieving gender equality;
- We are a member of the Race Equality Charter (REC) to help to improve the representation, progression and success of minority ethnic colleagues and students within higher education. REC provides a framework through which institutions work to identify and self-reflect on institutional and cultural barriers standing in the way of minority ethnic colleagues and students. We are aiming for a full accreditation submission by 2022 and have a self-assessment team, chaired by the Deputy Vice-Chancellor and Provost, with membership of colleagues and students from across the organisation working on several key work streams;
- We are members of Stonewall, Disability Forum and For Families;
- February 2021 sees the start of a new leadership programme offering colleagues from ethnically minoritised groups and communities the opportunity to develop into inclusive leaders and challenge their thinking about what it is to be a leader from an underrepresented group in the University, in the sector and in the city. This is the first major positive action programme undertaken by the University and we aim to develop more programmes designed to support other minoritised groups in the future;
- The University is committed to its Apprenticeship scheme, delivering support for entry level / newly recruited apprenticeship roles and support for apprenticeship programmes for existing colleagues. The University engages with local colleges and providers to support this programme and we currently have over 100 apprenticeships across the institution;
- We have invested in significant resources in training and development across a range of teams. We offer a comprehensive suite of development programmes covering technical, soft skills and management skills available online and face to face. Our Engage and Aspire programme places emphasis on good quality coaching and development conversations between colleagues and managers to identify learning needs. A fully-fledged mentoring scheme is also available to all colleagues at any point in their career;
- Our commitment to being a Real Living Wage Employer;
- Significant investment in IT systems to support People Management.
Investing in world-class facilities

The University’s financial position is strong: over the past few years we have invested heavily in our city centre campus and will continue to do so over the coming years. Our investments include:

- The refurbishment and extension of the Stephenson Building, home to the School of Engineering;
- The phased refurbishment of the Armstrong and Daysh Buildings (for Humanities and Social Sciences Schools as well as the heart of our graduation ceremonies and events);
- The development of our flagship, £58m Urban Sciences Building (housing our School of Computing);
- The development of a 1,277-bed Park View Student Village;
- A new medical sciences education building;
- The refurbishment of the Claremont Complex;
- Our new £25m Sports Centre which will enable students to participate in sport during their time at university and plays a vital role across the entire student lifecycle;
- In partnership with Newcastle City Council and Legal & General, we are creating Newcastle Helix, a £350m urban regeneration project which is the largest of its kind in the UK;
- The investment of £34m in the Frederick Douglass Centre – a flagship educational building with student experience at its heart, named in honour of the 19th century social reformer and abolitionist who was associated with the Summerhill area of the city next to the Helix site;
- The Catalyst Building – a £44m bespoke headquarters for our National Innovation Centres for Ageing and Data and the National Institute for Health Research Innovation Observatory – opened in Autumn 2019;
- In 2020 we also received approval for the National Innovation Centre in the Rural Economy. Together with the Urban Sciences Building, these innovation centres will create a full-scale demonstration site or “living laboratory” in the heart of Newcastle that will provide real-world solutions to the issues facing modern and growing cities that businesses and communities can get involved with and help to shape;
- We are also working with partners in health and social care to develop a master plan for the Campus for Ageing and Vitality, on the site of the former Newcastle General Hospital, which we acquired last year;
- Investment in cultural venues linked to our academic excellence including The Hatton Gallery is part of our world-class School of Arts and Cultures;
- The Great North Museum: Hancock (GNM) is home to extensive natural history, archaeology and ethnography collections;
- We also have many cultural partners in the region and nationally, including Northern Stage (an award-winning theatre based on our city centre campus), Seven Stories (the National Centre for Children’s Literature), and the National Trust.
University Organisation & Structure

Led by the Vice-Chancellor and President, Professor Chris Day, the other senior leaders of the University include our Deputy Vice-Chancellor and Provost, Professor Julie Sanders, and four cross-cutting Pro-Vice-Chancellors (PVCs). They provide strategic leadership on a University-wide basis for each of our core academic functions: Education (Professor Tom Ward); Research Strategy & Resources (Professor Brian Walker); Engagement & Place (Professor Jane Robinson); Global (Professor Richard Davies).

Delivery of the core academic functions occurs in our three faculties, each of which is led and managed by a PVC: Faculty of Humanities and Social Sciences (HaSS; Professor Nigel Harkness); Faculty of Medical Sciences (FMS; Professor David Burn); Faculty of Science, Agriculture and Engineering (SAgE; Professor Stephanie Glendinning). The three Faculty PVCs report to the Deputy Vice-Chancellor and Provost.

The Professional Service functions are led and managed by the three Professional Service budget-holders: the Chief Operating Officer (Adrienne McFarland); the Executive Director of Finance (Nick Collins); and the Registrar (Dr Colin Campbell), all of whom are members of the Executive Board. Executive Director of External Relations (Justin Cole) is also a member of Executive Board. The Faculty professional service functions are led and managed by the three Directors of Faculty Operations (DoFOs) who report directly to the Faculty PVC.

Each Faculty consists of a number of academic units, typically schools or research institutes, each led and managed by a Head. Currently, there are 21 academic schools (including Malaysia and Singapore), 12 research institutes and a further 39 research centres.

The University’s new Vision and Strategy, launched in October 2018, comprises four core strategies: Education, Research, Engagement and Place, and Global. Each of these is supported by a series of strategic enablers that provide a focus for a range of underpinning activities.

Distribution of Academic Schools and line-managed Institutes

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<tr>
<th>Humanities and Social Sciences</th>
<th>Medical Sciences</th>
<th>Science, Agriculture and Engineering</th>
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<tr>
<td>Architecture, Planning &amp; Landscape Arts &amp; Cultures</td>
<td>Biosciences Institute Translational and Clinical Research Institute</td>
<td>Computing Engineering</td>
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<tr>
<td>Newcastle University Business School Combined Honours and Philosophy Education, Communication &amp; Language Sciences English Literature, Language &amp; Linguistics Geography, Politics &amp; Sociology History, Classics &amp; Archaeology Newcastle Law School Modern Languages Humanities Research Institute Institute for Social Science Institute for Creative Arts Practice</td>
<td>Population Health Sciences Institute School of Biomedical, Nutritional and Sport Sciences School of Dental Sciences School of Medical Education School of Pharmacy School of Psychology</td>
<td>Mathematics, Statistics &amp; Physics Natural &amp; Environmental Sciences Newcastle University in Singapore (NUIS) National Innovation Centre for Data (NICD)</td>
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<td>Computing Engineering</td>
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Professional Services

The University’s central Professional Services are organised into three major budget areas as listed below. These work closely with the Faculty Professional Services as part of the ‘One University’ approach.

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<tr>
<td>Accommodation Services</td>
<td>Academic Services: Library; Learning and Teaching Development Service; Writing Development Centre</td>
<td>Business Enterprise</td>
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<td>Hospitality &amp; Commercial Services</td>
<td>Careers Service; International Office; Marketing; Sport; Student Health and Wellbeing; Student Progress &amp; Registry; UK Student Recruitment, Admission and Widening Participation</td>
<td>Finance</td>
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<td>Corporate Communications</td>
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<td>Planning and Change Team</td>
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<td>NU Advancement</td>
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<td>Research Services</td>
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Equality, Diversity & Inclusion

We are committed to academic excellence, equality of opportunity, valuing individual differences and the diversity this brings. We aim to develop a fully inclusive University community which recruits and retains colleagues and students from all sectors of society, so that they can be developed within a positive and supportive culture and encouraged to flourish and reach their potential. Our ED&I strategy can be found [here](#).

These fundamental values are central to ensuring that all individuals are treated with dignity, fairness and respect. The fostering and promotion of good relations and understanding between and among colleagues and students, irrespective of identity or background, is expected of everyone that works or studies at the University. By fully embracing equality and diversity, the University is better able to engage with its customers, respond to new and evolving business challenges and create better working environments for colleagues.

**Athena SWAN**

We are the proud recipients of an institutional silver Athena Swan award demonstrating our achievements and ongoing commitment to achieving gender equality. We have held a Silver award since 2016

**Race Equality Charter**

Newcastle University has become a member of the Race Equality Charter (REC) to help to improve the representation, progression and success of minority ethnic colleagues and students within higher education.

REC provides a framework through which institutions work to identify and self-reflect on institutional and cultural barriers standing in the way of minority ethnic colleagues and students. We are aiming for a full accreditation submission by 2022 and have a self-assessment team, chaired by the Deputy Vice-Chancellor, with membership of colleagues and students from across the organisation working on several key workstreams that have huge relevance in the Education portfolio.

We value diversity at Newcastle University and welcome applications from all sections of the community.
Living and Working in Newcastle

Newcastle is a modern, vibrant city in the North East of England, rich in culture with a stunning cityscape and strong identity. It is a special place that rewards people who choose to visit, live, work and study here. Newcastle is also a leading city in tackling the climate emergency with a dedicated Net Zero Task Force and is one of only 4 cities in the UK to receive the top “A” grade from international climate research provider CDP, one of only 88 globally. Newcastle City Council and Newcastle University were amongst the first local authorities and universities to declare a climate emergency and commit to Net Zero carbon emissions, alongside Newcastle Upon Tyne Hospitals Trust who were the first healthcare organisation in the world to do the same.

Getting around

The city centre is easier to get around than many other urban centres as it is compact and quite flat, and most major landmarks are within a 20-minute walking distance. The modern, integrated transport system includes an extensive bus network, designated cycle lanes and the North East’s own underground train system, the Metro, to get around the city and region.

Newcastle is also well connected with the rest of the UK and beyond. The East Coast mainline provides direct access to London by train in less than three hours and Edinburgh in just over an hour, with trains running approximately every 30 minutes. The A1(M) motorway links the area to London, Edinburgh and other major UK cities, and there is an International Airport less than 15 minutes from the city centre.

Attractions

The city offers excellent shopping facilities including the Grainger Market, a unique indoor market which is home to local businesses and produce, as well as local shopping centres and high street chains. There are also plenty of restaurants, museums, galleries and cinemas.

Newcastle is a very green city, with swathes of open green space in Exhibition Park just north of the University campus, as well as the Town Moor, Nun’s Moor and Jesmond Dene. The city also lies in close proximity to the North East coastline and countryside, including the Northumberland coast and its historic castles, designated as an Area of Outstanding Natural Beauty, which are only 30 minutes’ drive to the north. To the west lies Hadrian’s Wall world heritage site, and south of the city is County Durham, where the ancient City of Durham is complemented by a heritage coastline and rural towns and villages.

The city centre is renowned for its stunning architecture with many fine buildings and streets including Grey Street, described by renowned architectural historian, Nikolaus Pevsner, as ‘one of the finest streets in England’. Once a busy industrial and commercial dockside, Newcastle’s Quayside is now packed with cafés, bars and restaurants from which to enjoy views of the River Tyne and its bridges. Neighbouring Gateshead, on the south bank of the Tyne, is famed for its contemporary culture and iconic structures, including BALTIC, converted from a landmark industrial building in the 1990s and
now a major international centre for contemporary art, the Sage Gateshead concert venue occupying a curved glass and steel building designed by Norman Foster, the Stirling Prize-winning Gateshead Millennium Bridge and Antony Gormley’s Angel of the North.

Sports fans are spoilt for choice in Newcastle, with regular top-flight football, rugby and basketball fixtures taking place in the city. Gateshead Stadium brings international athletics to the region, while the world-class Durham International Cricket Ground plays host to county, one-day international, Twenty20 and Test matches. Every year, the world’s largest half marathon, the Great North Run, attracts some 57,000 participants and many thousands more spectators.

**Living in the region**

Our region is one of the best-value places to live in the UK based on the average cost of living, and property is significantly more affordable than in many other parts of the country. From carefully restored Victorian terraces to contemporary city-centre apartments, semi-rural locations to seafront homes, the region offers a wealth of choice in accommodation.

Newcastle’s hospitals have an international reputation for excellence in health care, and the University works in close partnership with the Newcastle Hospitals NHS Foundation Trust. Our National Health services are some of the best in the country, and our hospitals – including the Royal Victoria Infirmary and the Freeman and Queen Elizabeth hospitals – are also significant employers.

Education here also has a strong reputation, with a choice of excellent state and private schools, several FE colleges and of course world-class higher education provision.
How to Apply

Newcastle University now invites applications for the position Professor of Net Zero Maritime Systems

Applications should consist of a full academic CV and a covering letter, of up to 2 sides of A4 paper, outlining your interests in and vision for the role.

We appreciate that, for some colleagues, a standard, full-time contract may not be ideal. So, we are very happy to consider flexible options, such as job-sharing, for this position. For more details, see our flexible working web page.

For a confidential discussion about this role, please contact Dr Roberto Palacin at roberto.palacin@newcastle.ac.uk

Appointment Timetable

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<td>Opening Date:</td>
<td>18.07.2022</td>
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<td>Closing Date:</td>
<td>18.10.2022</td>
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<td>Formal Interviews</td>
<td>24.11.2022</td>
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An artist impression of the planned Stephenson Building

Credit: NORR & PBlmaging