



SCAN ME
for info



Sustainable Fashion Designer



Wind Turbine Technician










Climate Change Officer

How to find
a job fit for
the future...



A Canny
North East Guide to
Green Careers

Check out our guide to green careers

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What are green jobs?



Green jobs are jobs that help the environment
They do this by protecting, enhancing, or conserving it

All jobs can be green jobs
All jobs can support the green transition through adapting their products and processes to help tackle climate change

Green jobs are essential for tackling climate change

We need green jobs as they will reduce the impact of climate change. They will also help us find new sustainable ways of living and help adapt to the change global warming is causing.



Scan QR code with your mobile phone camera to find out more about climate change by watching this video



Scan QR code with your mobile phone camera to find out why climate change affects you in Newcastle

Why choose a green job?

1

Higher wages

Having a green job means you often earn more money than non-green jobs.



Average wage in the UK green economy
£657.53
a week after taxes.



Non-green job average wage
£530.14
a week after taxes.

2

Great opportunities in the North East

There are many different green jobs available in the North East.



The largest green sector employers in the region include Nissan, EQUANS, Siemens, SUEZ and Baker Hughes.

3

A growing sector

There are currently...



11,418
green jobs in the region

By 2030 it is expected there will be...



41,924
green jobs in the region by 2030

4

A job making a difference

Working in the green sector will help to tackle climate change.



It will also help improve the lives of local communities and the environment.

5

A job for everyone

The skills and opportunities in the green sector are available to anyone.



There are many jobs available in the green sector which are inclusive for all, from entry-level jobs and apprenticeships to management.

6

Transferable skills

You can gain key skills.



Many of the skills you learn working in the green sector can be transferred to other sectors and jobs.

You can follow any pathway to a green job

Hear how people in the North East got there.

Apprenticeships



Tom Bates
Service Operations Manager, Siemens Gamesa UK

I oversee the daily operations of the North England Onshore Hub, totalling over 400MW of power output across 30 wind farms.

- I never wanted to attend University, I always wanted to take the route of a hands-on apprenticeship
- Wind Turbine Technician Apprenticeship in 2011
- Authorised Technician for 4 years
- Progressed to Service Team Leader in 2018
- Regional Supervisor for East of England
- Currently Service Operations Manager for North of England

“Looking back to when I started my career as an Apprentice in 2011, I always knew I wanted to climb the ladder, and there’s no better industry to do that than the Renewable sector.”



Higher Education



Maddie Benton
Biodiversity Technical Officer, Environment Agency

I advise on wildlife legislation and assess permits for projects that are near, or may affect, rivers and other protected habitats and species in Northumberland.

- Biology, Chemistry, and Maths A-Levels
- Ecology and Wildlife Conservation Degree
- Worked with skilled researchers, ecologists and rangers all over the country.
- Joined the Environment Agency in 2023

“Our overall aim as a team is to improve the quality of rivers, and to protect and conserve the wide range of wildlife that depends on river habitats”.



Anna Wadcock
Hotel General Manager, The Maldron Hotel

I manage The Maldron Hotel - a 265 room 4-star hotel in Newcastle. The Maldron has achieved Gold in the Green Tourism Award three years running.

- Began as a casual receptionist.
- Worked up through the ranks at various hotels.
- Now the General Manager of the Maldron Hotel

“Guests today are now looking to book hotels that are actively working to reduce their carbon footprint and giving guests a ‘greener’ stay, so businesses that drive this are becoming more











Straight into Work

How do I get there?


Once you've finished your GCSEs or A-Levels / BTEC, there are lots of different options for you to work or study in the green sector.



Green sectors

-  Construction and engineering
-  Creative arts
-  Science
-  Technology
-  Law, education and humanities
-  Outdoor environment
-  Business
-  Sector directory

You can go green in...

 For further information and a full list of employers visit our website www.newcastle.gov.uk/netzero



Construction and engineering

There are many exciting and varied green jobs within construction and engineering. The North East has always had a strong tradition in construction and engineering. You can continue this by designing, making, and building the houses, energy and vehicles of the future - from renewable energy to electric cars. You can work in an office, a factory or on a construction site – there’s a job for everyone.

Skills

- Physical strength
- Detail orientated
- Teamworking
- Endurance

Interests

- Working with tools
- Practical work
- Designing and making products
- Built environment

What next?



Green engineering careers - students | Neon - Brilliant inspiration (neonfutures.org.uk)



Construction and the built environment - Green Careers Hub



Careers - Blyth STEM Hub, Energy Central (stem-energycentraluk.co.uk)




Rose Miller
Apprentice Site Manager, EQUANS

“During my apprenticeship at EQUANS, I have been on a project called *Shieldfield Towers*. Working within sustainability allows me to make a positive impact on society by promoting eco-friendly practices and creating a more sustainable world for all. It’s a rewarding field that combines environmental consciousness with the opportunity to drive meaningful change.”




North East green construction and engineering employers



Poppy Atterton
Environmental Sustainability Officer, Bernicia

BERNICIA

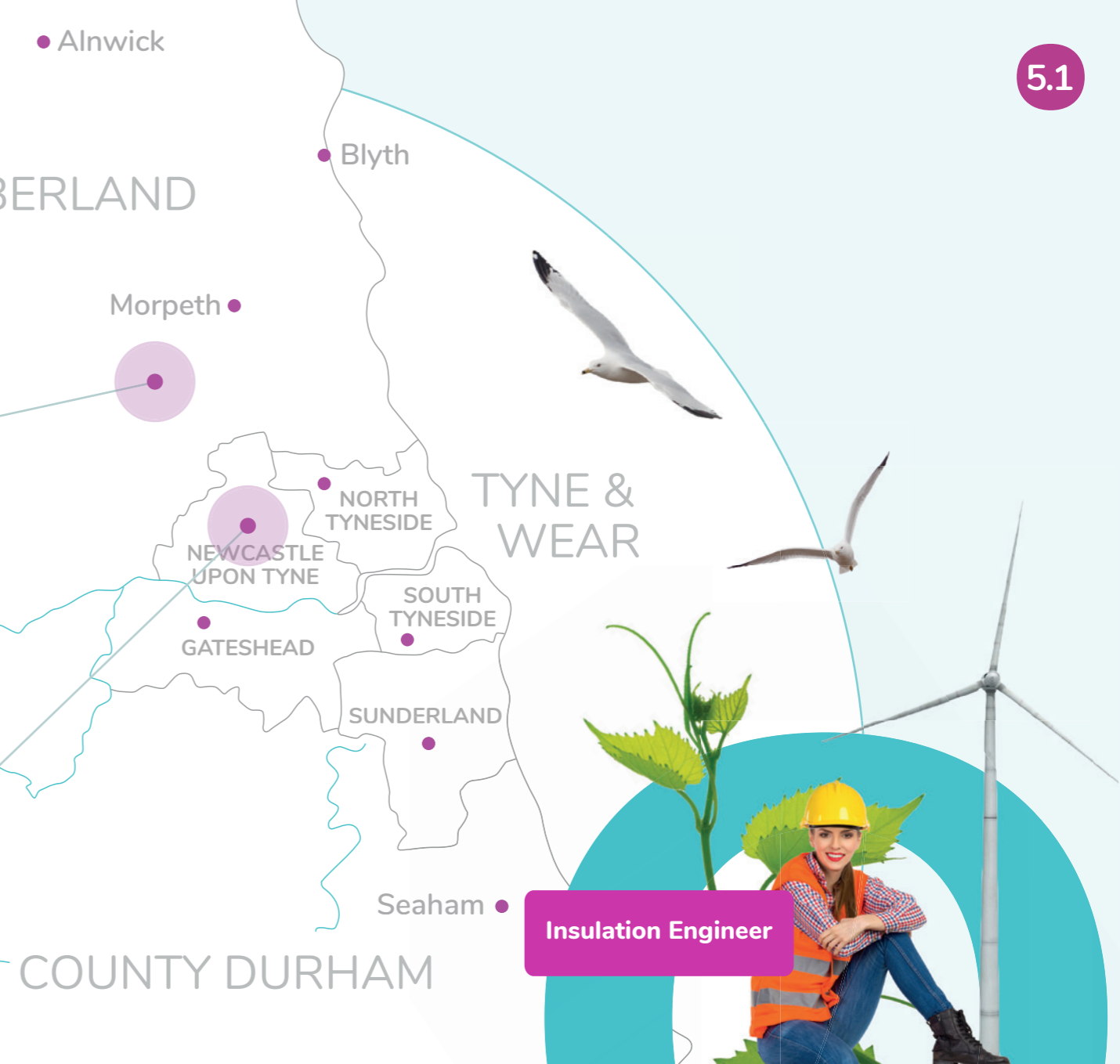
“My role involves delivering the Environmental Strategic Plan, which set environmental targets for the company to achieve. This includes supporting the retrofitting of our housing to improve energy efficiency. Getting to see first-hand the difference some of these projects make to local communities makes me really proud.”



Ben Drury
Graduate Structural Engineer, Fairhurst

FAIRHURST

“My role involves structural calculations, marking up drawings and carrying out site inspections. Since joining Fairhurst I have been able to understand first-hand how to assess the environmental impact of the structures we’re designing and how we can have a positive influence towards achieving Net Zero.”



Insulation Engineer

North East Wide

- Bernicia Group
- Hitachi
- Northern PowerGrid
- Network Rail

Northumberland

- Decerna
- DeepOcean
- National Renewable Energy Centre
- Port of Blyth
- Reheat
- Windel Energy

Newcastle

- Arcadis
- Atkins
- Baker Hughes
- Balfour Beatty
- Bellway Homes
- British Engines
- Cathie
- Cundall Engineering
- EQUANS
- Fairhurst
- GHD
- Houghton International

- Jacobs
- Jasper Kerr
- JC Consulting
- Karbon Homes
- McGrady Clarke
- Mott MacDonald
- Natural Power
- Pegasus Group
- Shepherd Offshore
- Ramboll
- RPS Group
- Stantec

- TechnipFMC
- Turner & Townsend
- Wardell Armstrong
- WSP

North Tyneside

- Port of Tyne
- Siemens
- Smulders

South Tyneside

- Amari Plastics
- Castle BS
- Equinor
- Storm Tempest

Sunderland

- AR Power
- Nissan

Gateshead

- AMB Packaging
- Graphic Packaging International
- Green Leaf Engineering
- Schneider Electric
- Willmott Dixon



Creative arts

You could work in the theatre, within music, write or act to communicate powerful messages about climate change. To make the world more sustainable, story-telling and messaging are essential. Jobs in the creative sector often inspire change through emotive theatre, dance, art and music. If you like designing, you could work as a graphic designer or even as a fashion designer to grab everyone’s attention.

Skills

- Communication
- Creative thinking
- Confidence
- Open-mindedness

Interests

- Art and design
- Drama
- English
- Music

What next?



Creative Careers - Youth Employment UK



CreativeCareer-Publication-2022-Campaign-15thSept-Proof02.pdf



Creative Industries and the Climate Emergency: The Path to Net Zero



Roles in film, TV, games, animation and VFX - ScreenSkills

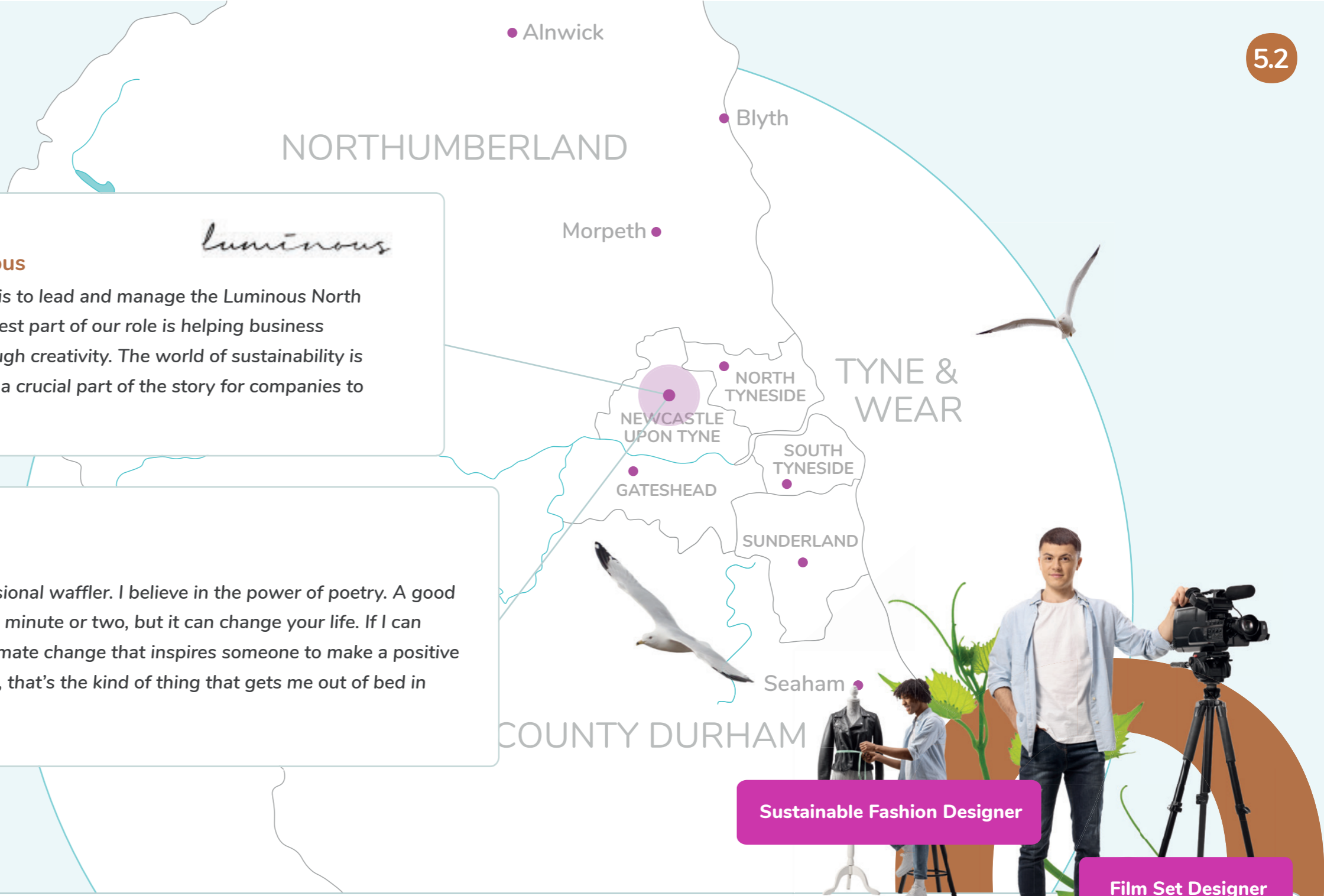


Brad McCormick
Artistic Director, Cap a Pie

“I plan and deliver theatre, creative and philosophical workshops for primary school aged children. The subjects can range from the climate crisis to global insect decline. We want young people to think about really big questions, to be creative, have fun, work together and express their opinions.”



North East green creative arts employers



James Moore
Creative Director, Luminous

luminous

"As Creative Director my role is to lead and manage the Luminous North studio in Newcastle. The biggest part of our role is helping business communicate their story through creativity. The world of sustainability is moving at a rapid pace and is a crucial part of the story for companies to tell now more than ever."



Rowan McCabe
Spoken Word Poet

"I'm a poet and professional waffler. I believe in the power of poetry. A good poem might only last a minute or two, but it can change your life. If I can write a poem about climate change that inspires someone to make a positive difference in the world, that's the kind of thing that gets me out of bed in the morning."

Newcastle

- Bryonn Architecture LTD
- Cap-a-Pie
- Crystallised
- Gradon Architecture
- JDDK Architects
- Luminous
- Nomad Digital
- Sail Creative
- Space Architects
- The Farrell Centre
- Tyne & Wear Museums and Archives
- Ubisoft
- Young Women's Film Academy

Gateshead

- Baltic Centre
- Coatsink
- Northern Print Solutions
- Proto
- The Glasshouse

Sunderland

- Theatre Space North East



Science

If you love gathering evidence, carrying out research and coming up with new ideas to solve problems, this could be for you. Working within science will help to protect our native plants and animals, find new ways of growing our food and defend our local communities from the effects of climate change

Skills

- Good with numbers
- Problem solving
- Critical thinking
- Practical working

Interests

- Maths
- Nature and wildlife
- Research
- Innovation

What next?



Health & Science Careers - Youth Employment UK



Discover Green Jobs for Nature - Get that Green Job



Key Conservation Roles | Conservation Careers

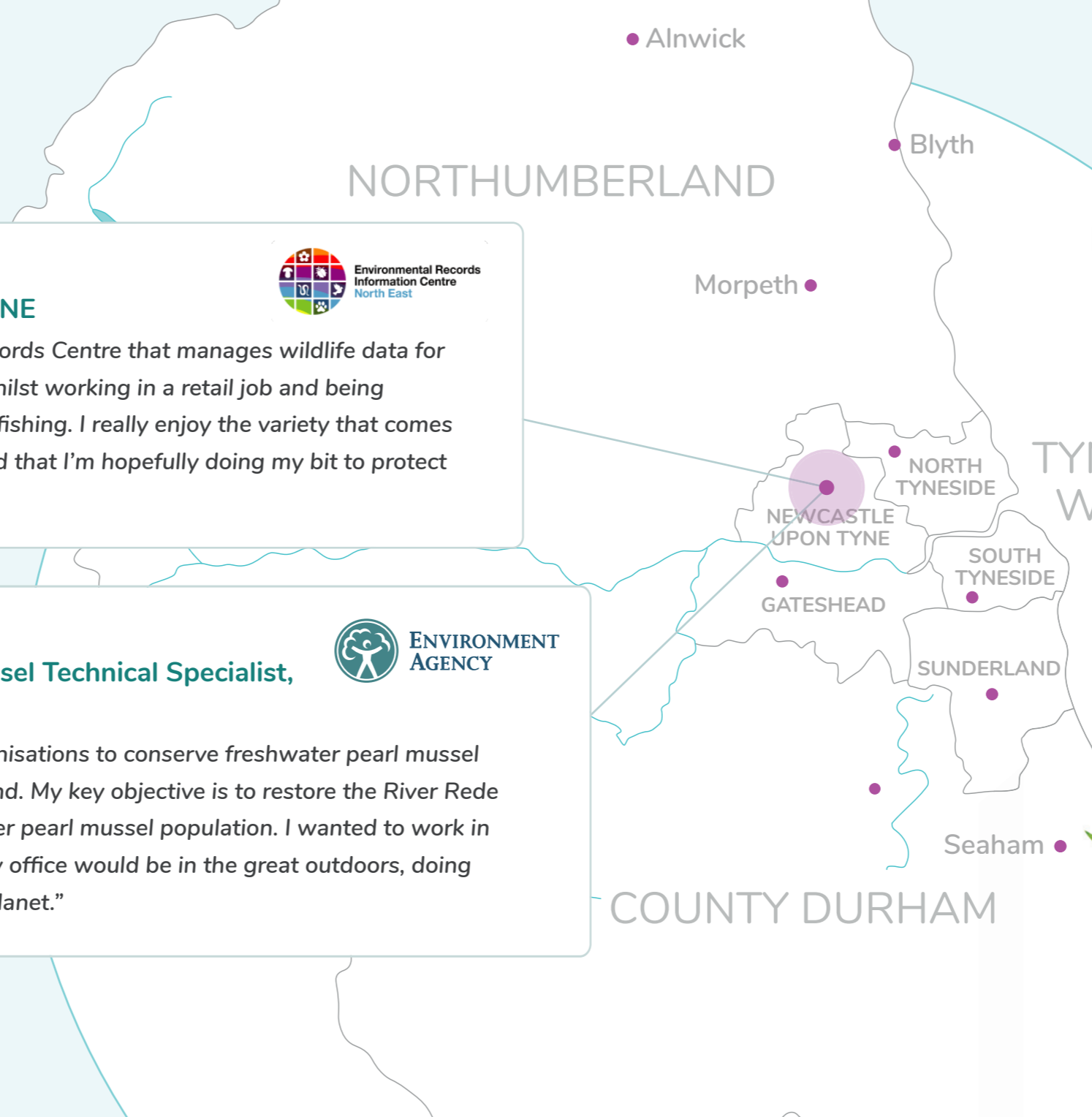


Liz Heard
Wild City Manager, Northumberland Wildlife Trust

"I manage the Wild City Team, which aims to connect people with nature and support taking action – I work with schools and youth/community groups. I've always loved nature and being outside, and wanted a career that would allow me to help nature and people at the same time. I love working for an environmental charity as you can see the impact you create through your work daily."



North East green science employers



Paul Stevens
ERIC NE Coordinator, ERIC NE



"I run a Local Environmental Records Centre that manages wildlife data for the region. I came to this field whilst working in a retail job and being concerned by the effects of overfishing. I really enjoy the variety that comes with my role, and I'm encouraged that I'm hopefully doing my bit to protect biodiversity."



Ben Strachan
Freshwater Pearl Mussel Technical Specialist,
Environment Agency



"I work with various organisations to conserve freshwater pearl mussel populations within England. My key objective is to restore the River Rede and North Tyne freshwater pearl mussel population. I wanted to work in Marine Biology, where my office would be in the great outdoors, doing something good for the planet."



Geoscientist

Plant-based Nutritionist

North East Wide

- Groundwork NE & Cumbria
- Northumbria NHS Trust
- Regional Universities
- The Wildlife Trust
- Tyne Rivers Trust
- Wildlife and Wetland Trust

Newcastle

- AECOM
- BSG Ecology
- Earth & Marine Environmental Consultants
- Enviresearch Ltd.
- Environment Agency
- ERIC NE
- FALCO Ecology
- JBA Consulting
- Marine Management Organisation
- Natural England
- Newcastle University
- Northumbria University
- Roberts Environmental



Technology

Tech is a fast paced and ever-growing sector! If you love thinking about new technologies, products, services and finding new technological solutions for problems, this could be for you. Whether it's an app, an electric car or new low carbon technologies, there's something for everyone.

Skills

- Problem solving
- Attention to detail
- Critical thinking
- Curiosity and Imagination

Interests

- Computing
- Coding and data
- Artificial intelligence (AI)
- Designing and making new products

What next?



Technology - Green Careers Hub



Overview of the UK's IT industry | Prospects.ac.uk



Careers in games - ScreenSkills

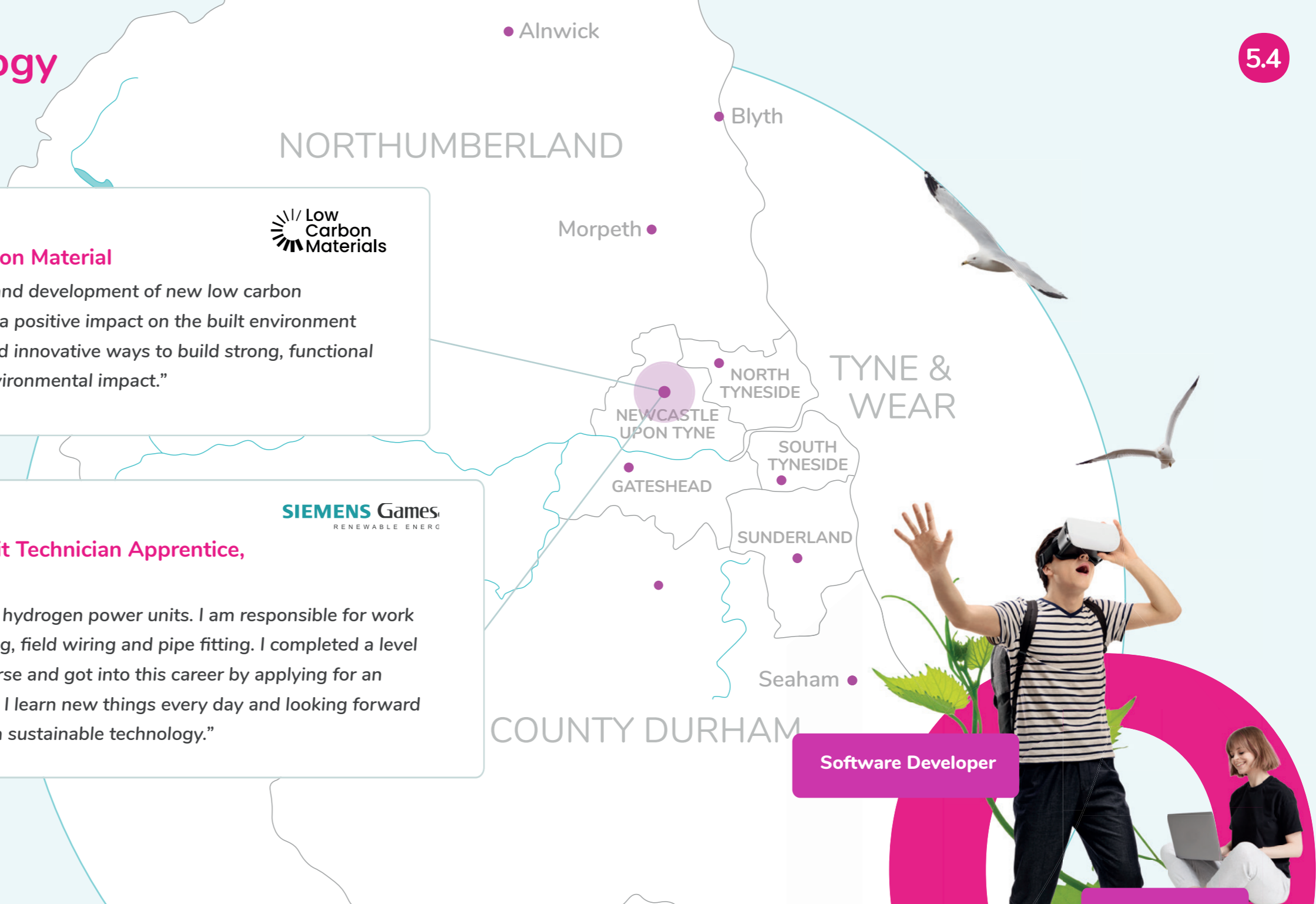


Heidi Portwine
Technical Consultant, CGI

"My role as automation tester mainly falls within the areas of software engineering and testing. I am responsible for designing, developing, and executing automated tests to ensure the software created by developers fits its purpose. I chose this career because I have always had an interest in technology and enjoy working on and solving complex problems."



North East green technology employers



Joshua Allison
R&D Technician, Low Carbon Material



"My role involves the research and development of new low carbon construction materials to make a positive impact on the built environment and the planet. I'm driven to find innovative ways to build strong, functional structures while minimising environmental impact."



Oliver Strong
Hydrogen Power Unit Technician Apprentice, Siemens Energy



"My job involves making hydrogen power units. I am responsible for work such as mechanical fitting, field wiring and pipe fitting. I completed a level 3 BTEC engineering course and got into this career by applying for an apprenticeship program. I learn new things every day and looking forward to continuing my work in sustainable technology."

Software Developer

Web Designer

Newcastle

- Caspian
- CGI
- Equiwatt
- Ingram AV
- National Innovation Centre for Data
- Optimise
- PowerRoll
- Siemens Energy

- Urban Observatory
- Zero Carbon Futures UK
- ZeroLight

Gateshead

- Turntide Technologies
- VRAI

Durham

- Low Carbon Materials

Sunderland

- Envision AESC



Law, education and humanities

If you are interested in bringing about change, solving problems in society and holding power to account then this sector is for you. All of these will be important in dealing with the social and economic issues that are linked with climate change. If you like looking at the big picture, or are interested in politics, law, policy or planning, these areas can make a big difference.

Skills

- Leadership
- Communication
- Teamworking
- Research

Interests

- Politics
- History
- Geography
- Public speaking

What next?



What is environmental law? | University of Law



Top 10 public policy skills you need to grow your career | Oxford



w4mp | The site for everyone working for an MP (w4mpjobs.org)

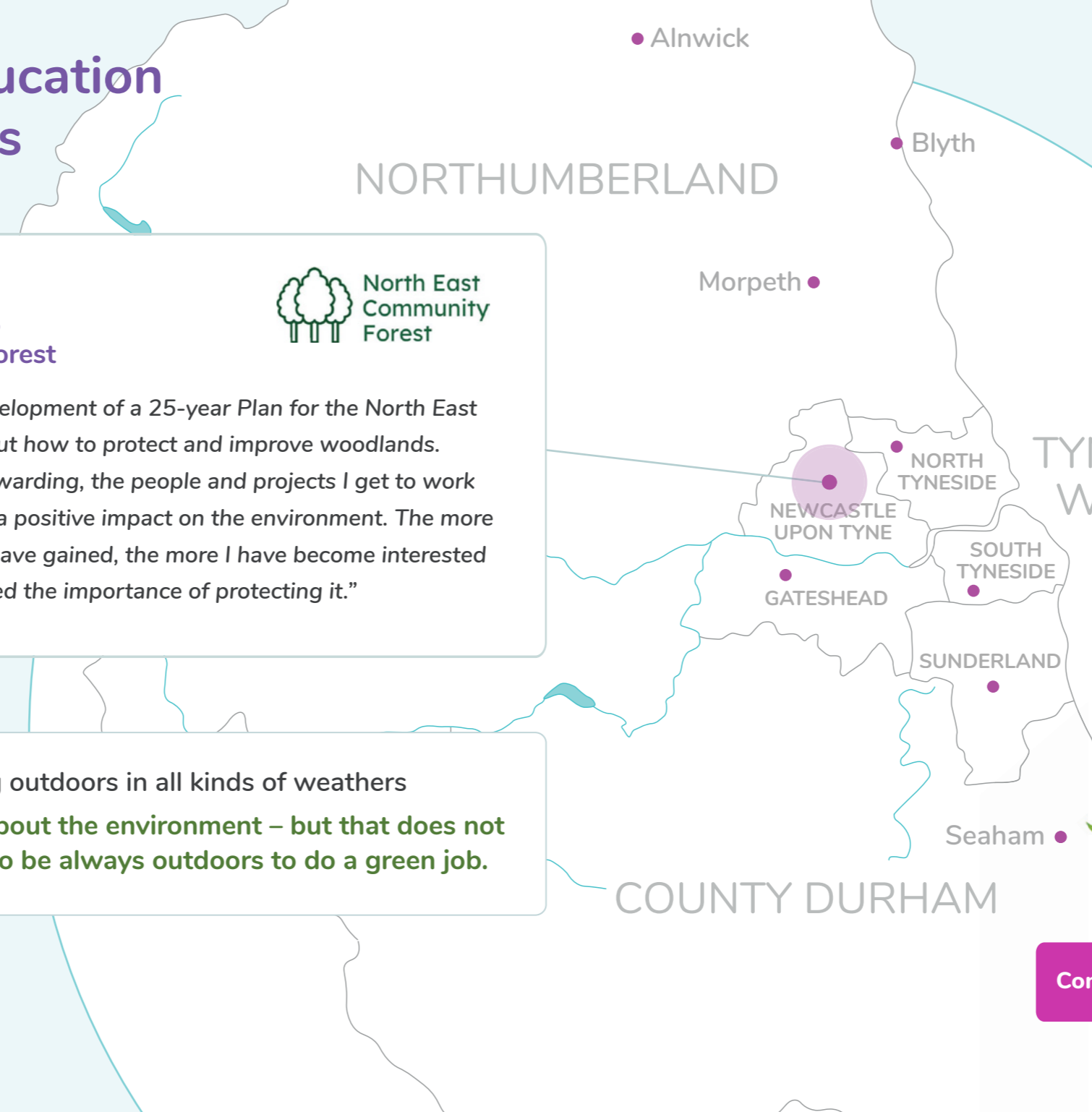


Rachel Somerville
Climate Policy and Delivery Officer,
Newcastle City Council

"I support the transition to Net Zero by 2030 in Newcastle. This involves working on the main categories that create emissions, which are energy, transport, waste, and biodiversity. The most enjoyable part of my job is collaborating with like-minded people to educate future generations on the importance of climate change action."



North East green law, education and humanities employers



Kelly Graham
Senior Woodland Officer,
North East Community Forest



“My role is to manage the development of a 25-year Plan for the North East Community Forest – setting out how to protect and improve woodlands. I find it both enjoyable and rewarding, the people and projects I get to work on are inspirational and have a positive impact on the environment. The more knowledge and experience I have gained, the more I have become interested in the environment and realised the importance of protecting it.”



Green jobs are all about being outdoors in all kinds of weathers

Busted! Green jobs are about the environment – but that does not mean you need to be always outdoors to do a green job.



North East Wide

- Climate Action North
- Forest Schools
- Local NE Councils
- Mayor Combined Authority
- Sustrans

Newcastle

- BBC Newcastle
- Bind/Magic Hat
- Eversheds Sutherland
- iCOR Systems
- Irwin Mitchell
- Newcastle City Council
- Sintons
- Trinity Chambers

- Ward Hadaway
- Weightmans
- Womble Bond Dickinson

North Tyneside

- The Wave Project

Durham

- ITV Tyne & Tees



Outdoor environment

Do you like working outdoors? Jobs that protect our trees, landscapes and wildlife are so important as the effects of climate change take place. We also need to build defences against natural disasters like flooding. If you are passionate about the environment or want to look at how we produce food more sustainably, this could be for you.

Skills

- Practical working
- Resilient
- Teamwork
- Organisation

Interests

- Working in the outdoors
- Nature and wildlife
- Waste and recycling
- Working with tools

What next?



Arboricultural Association - Careers in Arboriculture (trees.org.uk)



Discover Green Jobs for Nature - Get that Green Job

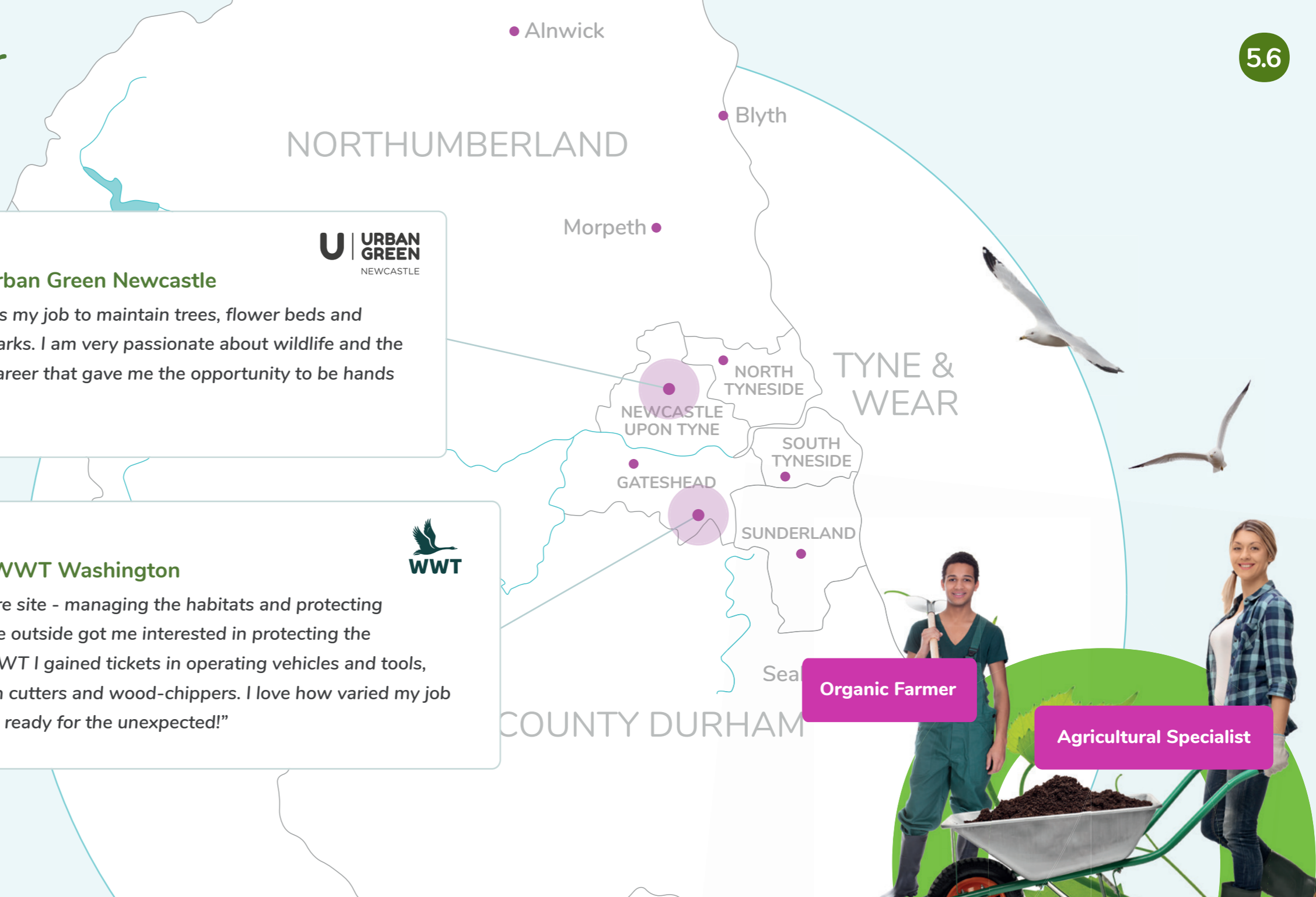


Vincent Jenkins
Ranger, Urban Green Newcastle

“My job involves checking parks daily to make sure they are clean and safe for the public to enjoy. My aims are for every park to be maintained and kept to a high standard and for nature to thrive. I love working outdoors in all weathers in the 32 parks in Newcastle, it’s great for mental health and wellbeing.”



North East green outdoor environment employers






Chloe Hall
Community Gardener, Urban Green Newcastle


“As a community gardener it’s my job to maintain trees, flower beds and protect habitats across our parks. I am very passionate about wildlife and the environment and wanted a career that gave me the opportunity to be hands on and work outdoors.”





Kate Ferguson
Reserve Warden, WWT Washington

“I look after a 103-acre site - managing the habitats and protecting wildlife. Spending time outside got me interested in protecting the environment. With WWT I gained tickets in operating vehicles and tools, such as tractors, brush cutters and wood-chippers. I love how varied my job is and always must be ready for the unexpected!”



- | | | |
|---|--|--|
| <p>North East Wide</p> <ul style="list-style-type: none"> • Biffa • Forestry England • George F. White • National Trust • Sita UK • SUEZ • Veolia • Woodland Trust | <p>Northumberland</p> <ul style="list-style-type: none"> • Future Industrial Services • GSC Grays • Northumberland Estates • Northumberland National Park <p>North Tyneside</p> <ul style="list-style-type: none"> • The Wave Project | <p>Newcastle</p> <ul style="list-style-type: none"> • Greenhatch Group • Land & Water Services • North East Community Forest • Urban Green Newcastl |
|---|--|--|



Business

In order to tackle climate change, we must change the way we produce, sell and buy products and services. A key challenge to business and finance is ensuring this process makes an overall positive impact on the planet. The need for sustainable business practice is a growing area and can be one of huge demand and opportunity!

Skills

- Communication
- Creativity
- Ambition
- Leadership

Interests

- Finance and economics
- Innovation
- Marketing
- Community interests

What next?



Green Business Guide - BIPC North East



How to launch a green business – from idea to reality - Start Up Loans Company



Promoting sustainable business tourism | Green Tourism - Green Tourism (green-tourism.com)



Tamma Carel
Senior Environmental Consultant, Invelo Ltd and iCOR

“Environmental awareness in business has increased globally, with more environmental laws governing business emissions. I ensure that my clients are at the forefront of best practices in environmental and sustainability strategies. I specialise in environmental law and co-founded iCOR – a software solution to help organisations show they are following the law.”



Quality Control Inspector

Ecological Economist

Sustainable Hairdresser

Sustainable Clothing Retailer

Sustainable Beauty Consultant

Hotel Manager in Green Tourism

Carbon Accountant



North East green business employers



Joseph Grugeon-Dixon
Café Manager, Earthlings – The Healing Café



“I work in a small independent business that is directly involved with my local community. The café uses organic, whole ingredients along with a dedicated approach to allowing plants and food to be healing for our bodies. I work in a place that helps support my own creative and personal journey through sustainable practices - giving me a real feeling of purpose and community.”



Tamma Carel
Senior Environmental Consultant, Imvelo Ltd and iCOR



“I am one woman on a mission to help the environment and use my position to demonstrate that women can be powerful agents of change!”



Sustainable Hairdresser

Sustainable Clothing Retailer

North East Wide

- LNER
- Northern Rail
- CrossCountry Trains
- Arriva Northumbria
- Go North East

Northumberland

- Caribe Coffee Co.

Newcastle

- Blackfriars Restaurant
- Carbon Zero Consultancy
- Earthlings Café
- Erudus
- Full Circle Brew Co.
- Future Transport Systems
- Imvelo Ltd.
- Nexus Rail
- Newcastle Airport
- SLR Consulting
- Terra Infirma
- The Green Energy Advice Bureau
- The Maldron Hotel
- Thornton-Firkin
- Urban Foresight

Sunderland

- Berghaus

North Tyneside

- Accenture
- Finch Salon
- Green Zone Surveys
- Sage

South Tyneside

- Consultiv Utilities



Helpful links



What's a green job?



Green skills and careers



EAUC Scotland's Green Careers Guide (2023)



Global Authority on Workplace Culture

Job roles and routes



Green careers | National Careers Service



North East in the UK ([greenjobs.co.uk](https://www.greenjobs.co.uk))



What's next? A guide to starting your career 2024 ([reed.com](https://www.reed.com))



Find an apprenticeship - GOV.UK (<https://www.gov.uk/apply-apprenticeship>)



Apprenticeships, 14 to 19 education and training for work - GOV.UK (<https://www.gov.uk/browse/education/find-course>)

What next?

Friends of the Earth

Great Places to Work

Green Careers Hub

Job roles and routes

Green skills and careers

Find an apprenticeship





Construction and engineering

North East Wide

Bernicia Group
Hitachi
Northern PowerGrid
Network Rail

Northumberland

Decerna
DeepOcean
National Renewable
Energy Centre
Port of Blyth
Reheat
Windel Energy

North Tyneside

Port of Tyne
Siemens
Smulders

South Tyneside

Amari Plastics
Castle BS
Kier North East
Storm Tempest

Sunderland

AR Power
Nissant

Gateshead

AMB Packaging
Graphic Packaging
International
Green Leaf Engineering
Schneider Electric
Willmott Dixon

Please note this is not an exhaustive list of employers with green jobs available in the North East, there are likely to be others operating within the region. However, this list illustrates the wide range of green career opportunities that are available to young people in this region. Newcastle City Council cannot be held responsible for any content published on third party websites above.

Newcastle

Arcadis
Atkins
Baker Hughes
Balfour Beatty
Bellway Homes
British Engines
Cathie
Cundall Engineering
EQUANS
Fairhurst
GHD
Houghton International
Jacobs
Jasper Kerr
JC Consulting
Karbon Homes
McGrady Clarke
Mott MacDonald
Natural Power
Pegasus Group
Shepherd Offshore
Ramboll
RPS
Stantec
TechnipFMC
Turner & Townsend
Wardell Armstrong
WSPI

Creative arts

Newcastle

Bryonn Architecture LTD
Cap-a-pie
Crystallised
Gradon Architecture
JDDK Architects
Luminous
Nomad Digital
Sail Creative
Space Architects
The Farrell Centre
Tyne & Wear Museums & Archives
Ubisoft
Young Women's Film Academy

Science

North East Wide

Groundwork NE & Cumbria
Northumbria NHS Trust
Regional Universities
The Wildlife Trust
Tyne Rivers Trust
Wildlife and Wetland Trust
Young Women's Film Academy

Newcastle

AECOM
BSG Ecology
Earth & Marine Environmental
Consultants
Enviresearch Ltd
Environment Agency
ERIC NE
FALCO Ecology
JBA Consulting
Marine Management
Organisation
Natural England
Newcastle University
Northumbria University
Roberts Environmental

Gateshead

Baltic Centre
Coatsink
Northern Print Solutions
Proto
The Glasshouse

Sunderland

Theatre Space North East

Technology

Newcastle

Caspian
CGI
Equiwatt
Ingram AV
National Innovation Centre
for Data
Optimise

Gateshead

Turntide Technologies
VRAI

Sunderland

Envision AESC

Durham

Low Carbon Materials

Law, education and humanities

North East Wide

Climate Action North
Forest Schools
Local NE Councils
Mayor Combined Authority
Sustrans

Newcastle

BBC Newcastle
Bind/Magic Hat
Eversheds Sutherland
iCOR Systems
Irwin Mitchell
Newcastle City Council
Sintons
Trinity Chambers

Ward Hadaway

Weightmans
Womble Bond Dickinson

North Tyneside

The Wave Project

Durham

ITV Tyne & Tees

Outdoor environment

North East Wide

Biffa
Forestry England
George F. White
National Trust
Sita UK
SUEZ
Veolia
Woodland Trust

Northumberland

Future Industrial Services
GSC Grays
Northumberland Estates
Northumberland National Park

North Tyneside

The Wave Project

Newcastle

Greenhatch Group
Land & Water Services
North East Community
Forest
Urban Green Newcastle

Business

North East Wide

Arriva Northumbria
CrossCountry Trains
Go North East
LNER
Northern Rail

Northumberland

Caribe Coffee Co.

Newcastle

Blackfriars Restaurant
Carbon Zero Consultancy
Earthlings Café
Erudus
Full Circle Brew Co.

Future Transport Systems

Imvelo Ltd.
Nexus Rail
Newcastle Airport
SLR Consulting
Terra Infirma
The Green Energy Advice Bureau
The Maldron Hotel
Thornton-Firkin
Urban Foresight

South Tyneside

Consultiv Utilities

North Tyneside

Accenture
Finch Salon
Green Zone Surveys
Sage

Sunderland

Berghaus