Q-STEP SUMMER INTERNSHIPS 2021

policy@manchester - Net Zero, Regional Outlook

Organisation and Team
University of Manchester: policy@manchester

John Owens Building. The University of Manchester.

Selection Method
Written CV & cover letter followed by an interview

Application Criteria

Essential:
- An interest in public policy, improving inequalities in health, and using data to inform health policy.
- A willingness in developing and applying statistical techniques using data analysis and data visualisation software (one or more of Python, R, Excel, Power BI, Tableau).

Desirable:
- Basic statistical understanding and experience in using statistical and data visualisation software (Python, R, Excel, Power BI, Tableau).

Keywords
Environment, net zero, investment, funding, regions, employment, statistics, visualisation.

Support and training
Training in statistical and data visualisation software.

Practical Considerations
8 week internship

Project Outline
The UK will host the 26th UN Climate Change Conference of the Parties (COP26) in Glasgow on November 2021. In June 2019, the UK passed laws setting targets to bring all greenhouse gas emissions to net zero by 2050, as suggested by the Committee on Climate Change - the UK's independent climate advisory body. This compares with the previous target of a minimum of 80% reduction from 1990 levels.

Net zero refers to balancing any emissions by offsetting an equivalent amount of greenhouse gases from the atmosphere. Examples include planting trees or carbon capture and storage technologies. UK emissions have already been reduced by 42% whilst the economy grew by 72%. Furthermore, the industrial strategy which centres on green growth could see green jobs increase to 2 million and low carbon exports to grow to £170 billion per year by 2030.

Policy@manchester published analysis from the country's leading energy, policy, and climate change experts via blogs and publications with recommendations to mitigate the climate crisis at the same time as promoting local prosperity, jobs, resilience and equality. Policy@manchester address key climate issues such as the reduction of demand and efficiency improvements, as well as the development of the low carbon economy through offshore wind and nuclear technologies, domestic and public buildings, and transport. Policy@manchesters 'On Net Zero' publication also makes policy recommendations such as emissions reductions, economic incentives, and new technologies.

Successful applicants for the internship will, with the support of the policy@manchester team, acquire an awareness and understanding on key climate issues and will also obtain, analyse and present data identifying how climate investment and funding can promote local prosperity, jobs, resilience and equality. They will apply a combination of data scoping, data cleaning and processing, and data analysis methods, and present the data using appropriate data visualisation tools. The project will be undertaken using various statistical and data visualisation software (Python, R, Excel, Power BI, and Tableau).

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Q-Step

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Funded by the Nuffield Foundation, ESRC and HEFCE