



ONE Planet Undergraduate Research Experience Placement (REP) Scheme
Placement title: Tracking Net Zero Progress: A Meta-analysis of Carbon Emissions Statistics
One Planet Research Theme:
Climate & Climate Change 🛛 Earth System Processes 🗆 Anthropocene 🗆
Environmental Informatics 🗆
Supervisor: Cheng Siew Goh School/Department: Architecture and Built Environment
University: Northumbria University
Placement Description:
Carbon emissions are a critical contributor of the global climate crises. To achieve carbon neutrality, it is important to understand the calculations of carbon emissions and conduct critical analysis of the national/international carbon emissions. This project aims to examine the change of carbon emissions in different source sectors and fuel types. The project will employ the government statistics of carbon /greenhouse gas emissions to conduct a meta-analysis on data. Statistical analysis will be used to decompose the relationships of carbon emissions between source sectors and fuel types.
 Timescale: 1 July: Start of Placement 1 - 2 July: Briefing about the project background & the project objectives 3 - 7 July: Subject topic training to understand carbon emissions/greenhouse gas emissions 8- 17 July: Literature review/Secondary data collection/Desktop Study 18 - 31 July: Training on quantitative data & statistical analysis 1 - 10 August: Conducting quantitative data analysis 10 - 15 August: Reporting and Conclusion
Itemised Budget for the Project:
Student placement for 6 weeks - £3,357.
Research and training expenses - £500
- £350 for accessing data that are not readily accessible/engagement with external
partners for data collection (if required) £150 for relevant skills trainings for quantitative data analysis and statistical analysis
Prerequisites:
Skills of using Ms Excel are essential. Skills in quantitative study and statistical analysis are desirable.
For more information, please contact Dr Cheng Siew Goh (<u>cheng.s.goh@northumbria.ac.uk</u>).



