Q-Step Summer Project 2017:

UK Data Service Census Support

Ref: #25b UoMQStep 2017 UK Data Service Census Support

Team/Department: Census Aggregate

Address: Jisc, 6th Floor, Churchgate House, Oxford Street, Manchester, M1 6EU

Provisional Title for Project: "Creating Consistent Deprivation Measures Across the UK"

100 word abstract of what the project would probably undertake, and any data to be used:

We would like to take advantage of our new UK 2011 Census dataset and produce a set of Townsend deprivation scores on a range of geographies across the UK. The project would involve selecting the appropriate variables from the census and calculating the scores, then comparing these against published scores for parts of the UK where published. We would expect a report describing the methodology used to create the scores, analysis of the outputs and a tested R script. This new dataset would then be made available to our users through our GeoConvert web application and as a static download.

Key Words (up to 12): Townsend, Deprivation, Comparability, Overcrowding, Tenure, Unemployment

Essential and desirable skills that the student would need to have:

Essential: Excellent analytical skills
High level of technical expertise in using quantitative analytical programmes such as R
Strong problem solving skills
Good communication skills

Desirable: Experience of working with census datasets

Preferred selection method: Interview

Support and training offered by the organisation:

During the placement, the student will be assigned to the Technical Services Manager for the Census team as their line manager. The line manager will have weekly meetings with the student and will be responsible for setting and reviewing work objectives and ensuring that the student maximises the development opportunities available through the placement. For the duration of the placement, the student will be treated as a full member of the Census Support team and the team to which he/she is assigned.

Any issues of data confidentiality and/or IPR that would need to be resolved:

The student will work with open government licenced data, so there will be no confidentiality issues. The student will be using and adapting already published methodologies, so will need to cite the source of the methodologies used in this work, we are expecting the student to produce a paper with us detailing the work done and so will get co-authoring credit on this work.

Supporting Information:

This project is suitable for two students.

The student will be using aggregate data available through https://census.ukdataservice.ac.uk/get-data/aggregate-data

Information on deprivation data https://census.ukdataservice.ac.uk/get-data/related/deprivation

Financial assistance offered by the organisation: N/A