

Q-STEP SUMMER INTERNSHIPS 2021

UoM UK Data Service - Interactive Data Exploration of UK Data Service Data

Organisation and Team

University of Manchester: UK Data Service,
Cathie March Institute (CMI)

Humanities Bridgeford Street, University of
Manchester, Oxford Road, Manchester, M13 9PL.

Selection Method

Written CV & cover letter followed by an
interview

Application Criteria

Essential:

- Interest and experience of analysing survey data in statistical software package such as SPSS (or using R or Python)
- Good knowledge of basic survey analysis skills such as producing graphs, cross-tabulation and correlation
- Willingness to learn new data analysis tooling from Excel to SPSS, Stata, R or similar
- Interest in learning programming languages (python, R, or similar)

Desirable:

- Interest in creating learning resources
- Hosting on a web page
- Presentation skills

Project Outline

The UK Data Service holds the UK's largest collection of social and economic data including large scale surveys used to inform policy. We are looking for someone to help to create open learning resources. Designed especially for use in schools, these resources will allow users to interactively explore survey data on topical issues without downloading or installing anything. The resources will also include introductions to data analysis, statistics, and programming. The resources will use newly created teaching datasets containing sub-sets of data from large-scale UK surveys and web based interactive notebooks (such as Jupyter notebooks).

In this project, you will analyse UK survey data (e.g National Sexual Attitudes and Lifestyle Survey or British Social Attitudes Survey) to establish interesting findings that can help engage young people in social science data analysis. You will also have the chance to learn about programming and data environments, which will be used to turn the analyses into online interactive resources. You may also want to pursue the opportunity to contribute to the wider promotion of the work to teachers, students and the wider UK Data Service community through presentations and blog posts.

Key Words

Data Analysis, Social surveys, learning resources, Python, notebooks, Web Development

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Practical Considerations

Remote working

8 week internship

Support and Training

Assistance in finding, accessing and analysing relevant data.

Assistance in learning a programming language.

Issues of Data Confidentiality / IPR

No. The dataset may require some EULA but unlikely