

Q-STEP SUMMER INTERNSHIPS 2021

Opsmorph - Informing COVID-19 Recovery Policy with Data Driven Insights

Organisation and Team

Opsmorph: Tech Team

International House, 12 Constance Street, London, E16 2DQ

Selection Method

Written CV & cover letter followed by an interview

Application Criteria

Essential:

- An interest in socio-economic research and using data to improve people's lives.
- An interest in data analysis

Desirable:

- Some experience in a quantitative subject and any programming experience would be beneficial although this is an opportunity to learn new skills.

Key Words

COVID-19, local government, socioeconomics, policy, data analysis, data visualisation, Python

Project Outline

The Project

This project will collect open data from varied sources to help inform and optimise policy in local government. The insights will provide information on industry, employment status of residents, public services, furlough, COVID 19 prevalence, inequality, and racial and religious demographics, among many other socioeconomic indicators. These insights will form a data lake of information that can be displayed in clear communicative data visualisations and shared among stakeholders in web applications.

Tasks

Identify key indicators of interest to stakeholders. Source key data for the identified indicators. Write extract transform load (ETL) scripts in Python to collect and process data and load it into the data lake. Build data visualisation dashboards to show insights.

Tools

The project will use Python for programming and manipulation of data, particularly the package Pandas for working with CSV files. The in-house cloud data lake and data visualisation platform developed by Opsmorph will be used to present results.

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Practical Considerations

Remote working

8 week internship

Support and Training

Guidance on:

- use of tools for data analysis and getting setup
- basic data manipulation in Python
- some suggestions on where to source data from
- further reading

Financial Assistance

Access to cloud resources will be funded by Opsmorph and all software will be provided free of charge

Issues of Data Confidentiality / IPR

All results will be the property of Opsmorph although Opsmorph would welcome publicising the work through blog posts.

About Opsmorph

Opsmorph is a London based data science and cloud solutions research and consultancy company formed in 2020. Its mission is to work in co-design with organisations of all sizes to accelerate their development of innovative applications using state-of-the-art cloud technology, web science, machine learning and data visualisation. We are motivated to empower all of society to benefit from and contribute to the development of new technology and we are committed to tackling the biggest of societies challenges together. <https://www.opsmorph.com/>