CPC445 - Senior GIS Analyst/Modeller

Location   London or Milton Keynes

Reporting to   Team Leader, Sustainability & GIS

Working hours   Full time

Contract type/duration Permanent

Equal Opportunities   CPC is committed to ensuring it recognises equal opportunities

Date written   June 2021

Purpose of the Role

Reporting to the Sustainability and GIS Team Leader, you should be passionate and highly skilled at supporting research and innovation that has an impact on transport and cities. We are uniquely placed to deliver insight into the outcomes and results innovation creates. Will an innovation deliver clearer roads, or will it create jams? Will an innovation in freight handling reduce CO_2 emissions or will it increase fatalities? Is the innovation a new business opportunity or worthless? We have a wide range of academic and industrial modelling tools and combined this with a unique access to real local and national data sets to harness the power of geospatial services.

The Sustainability and GIS Team works closely with its Connected Places Catapult colleagues to articulate and evaluate the impacts of new innovative new products and, services their impact on UK economic growth. As a result of excellent past delivery and new projects in our portfolio we are in the process of increasing the team to meet the demand. You will be part of a small dynamic GIS team that is building traction both internally and within industry to implement and support cutting edge changes.

In this role you will primarily be supporting the delivery of innovative projects aimed at integrating and visualising geospatial data sets across the transport and built environment domains. You will be working with a small group of specialists developing new ways of integrating and visualising geospatial data. This will include developing visualisations to present data and developing ways to analyse and develop insights from a variety of established and new types of data sources.

The Sustainability and GIS Team supports project across the whole Connected Places Catapult and as such you will typically be working on multi-disciplinary projects with engineers, data scientists, planners, modellers, software developers, environmental specialists, social researchers, designers and a diverse range of external stakeholders. Having an eye for innovation and seeing how GIS techniques could be done in different ways is a key requirement for this role. You will also be expected to contribute to the dissemination of our project findings through online and physical events, conferences, and seminars.

Key Responsibilities

- Provide thought leadership within CPC and externally in the area of geospatial data visualisation and analysis, as well as developing interfaces and dashboards to support data sharing, strategic planning and design of future places.
- Act as point of contact within the CPC for geospatial visualisation and analysis, managing relationships and licencing with software providers, key industry practitioners and decision-makers and academic stakeholders.
- Provide support / training and coaching to colleagues within CPC on the GIS packages and systems that are in use.
- Provide technical leadership into projects involving geospatial data visualisation and analysis.
- Technical delivery of project tasks where the development of geospatial data visualisations and the development of data transfer interfaces is required.
- Direct liaison with internal and external clients and contributing to the overall team success.
- Management of own workload to time and quality
- Following internal processes in the delivery of projects
- Assist in business development activity and the preparation of bids and fee proposals.
- Contribute to the dissemination or our research output

Required Skills & Experience

- Significant experience of geospatial modelling, transport modelling and spatial planning
- Significant experience of modelling using MapInfo, ESRI ArcGIS and open source GIS platforms
- Significant experience of developing dashboards/user interfaces/front ends enable the graphical visualisation of geospatial data
- Significant experience of working in transport or spatial planning and the visualisation of relevant geospatial data.
- Significant experience of developing links into other packages/platforms to enable data to be extracted and visualised.
- Numerate with excellent data analysis skills.
- Knowledge of UK transport and spatial development policies, organisation and governance
- Experience of writing and presenting technical reports and liaising with clients
- Experience of working with UK organisations such as DfT, Transport Scotland, Highways England, Network Rail, local authorities and sub-national bodies.
- Excellent technical report writing skills
- Excellent interpersonal, written and verbal communication skills
- Ability to work both independently and as part of a team
- Relevant undergraduate degree and post graduate qualification (Masters / PhD)
- Proven ability to learn new software and/or analytical techniques rapidly, becoming competent to a high degree of autonomy.

Desirable

- Relevant MSc/MA/MEng or PhD
- Experience of implementing Geospatial standards (inspire etc)

- Mapbox experience
- Transport modelling / Network analysis
- PostgreSQL
- Geoserver
- Development of automated GIS tools in Python
- Contributing to professional publications

To apply for this role please email us on jobs@cp.catapult.org.uk with your CV and covering letter attached quoting the ref: CPC445