

CPC411 - Lead GIS Specialist

Location	London or Milton Keynes
Reporting to	Sustainability and GIS Team Leader
Working hours	37.5 hours
Contract type/duration	Permanent
Equal Opportunities	CPC is committed to ensuring it recognises equal opportunities
Date written	March 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 CO2 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 lead a small dynamic GIS team that is building traction both internally and within industry to implement and support cutting edge changes. As Lead grade, you will need to provide technical direction for other members of the GIS team, helping to lead our internal GIS service or work within exciting projects as the projects main GIS contact. This role will offer regular opportunities to lead and engage across the industry and you will directly shape the direction we take on GIS matters.

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 GIS across the full spectrum of projects and areas that CPC are involved in.
- Act as point of contact within the CPC for GIS, managing internal and external relationships, key industry practitioners, decision-makers, and academic stakeholders.

- Provide support / training and coaching to colleagues in GIS and its application across all CPC domains.
- Provide technical leadership into projects involving GIS development.
- Be a team player and actively support the development of new skills and technical capabilities within the capability team.
- Help grow our capability and understanding of GIS in relation to innovation projects across all CPC domains.
- Undertake the technical delivery of project tasks where GIS forms all or part of the project requirements.
- Management of own workload to time and quality.
- Direct liaison with internal and external clients and contributing to the overall team success.
- Following internal processes in the delivery of projects.
- Assist in business development activity and the preparation of bids and fee proposals.
- Lead the design of GIS studies, using automation as a way of streamlining process and maximise impact.
- Lead the dissemination of our GIS outputs.

Required skills and experience

Essential:

- A degree in civil engineering/transport planning or geography, and/or significant experience of undertaking GIS across CPC domains (for both services and infrastructure).
- Significant experience in software development, database management skills – ideally with SQL Server, PostgreSQL or MS Access.
- Have an in-depth practical knowledge of ESRI, ArcGIS, QGIS and/or FME analysis software
- Ability to develop geoprocessing models and tools using ESRI model builder and/or QGIS processing modeller.
- Ability to create geospatial software applications using Arcpy/Python, SQL, Javascript, and HTML
- Experience of writing and presenting technical reports and liaising with clients.
- Experience of working on GIS for UK organisations such as DfT, DEFRA, MHCLG, Highways England, Network Rail, & local authorities etc.
- Excellent technical report writing skills.
- Ability to work both independently and as part of a team.
- Proven ability to learn new software and/or analytical techniques rapidly, becoming competent to a high degree of autonomy.

Desirable:

- Knowledge and experience of GIS software e.g. MapInfo, ArcView, QGIS etc.
- Further relevant MSc/PhD qualifications are of benefit but not essential.
- Member or interested in becoming a member of professional body such as AGI

To apply for this role please email us on jobs@cp.catapult.org.uk with your CV and covering letter attached quoting the ref: CPC411