

Transport & Mobility Analytics Consultant

Job ID: 2018-2

Location: Madrid, Spain

Job Type: Full Time

Context and background:

Kineo Mobility Analytics (www.kineo-analytics.com) is a joint company by Nommon (www.nommon.es) and Willumsen Advisory Services (www.luiswillumsen.com) specialised in the development of analytics solutions for the exploitation of geolocation information. One of the main areas of application of Kineo's solutions is the provision of mobility information for the transport sector. The planning and management of transport infrastructure and services requires accurate, reliable and updated travel demand information. Travellers' socio-economic profile, origin and destination of the trips, trip purpose, transport mode and route choice are essential pieces of information for transport authorities as well as for transport operators and concessionaires. Traditional data collection methods, such as household travel surveys and roadside interviews, are expensive and time consuming. This limits the size of the samples and the frequency with which information is updated, which leads to many transport projects being planned on the basis of incomplete or outdated data. In recent years, the pervasive use of geolocated devices in our daily activities has enabled new forms of collecting rich mobility information at a fraction of the time and cost required by traditional methods. The abundance of data opens exciting opportunities for transport and traffic modelling and analysis, but it also requires the development of advanced methods and algorithms for the analysis and fusion of heterogeneous data sources, including data from mobile network operators, GPS providers, transport sensors, ticketing systems, etc. Over the past few years, Kineo has developed a proprietary cutting-edge solution that mines and analyses anonymised geolocation data from mobile devices and blends them with other data provided by our customers or available from public databases to provide high-quality, high-resolution information about people's activity and mobility patterns (e.g., origin-destination matrices, mode and route choice analyses, etc.). Since the company foundation in 2015, an ambitious research and development strategy has put Kineo at the forefront of innovation in the mobility analytics market and has led to continuous company growth. As part of our expansion plan for the coming years, we are now looking for a recent graduate (0-3 years' experience) to join our team as Transport & Mobility Analytics Consultant.

Job description:

The candidate will work alongside a multidisciplinary team to deliver projects for our clients. Responsibilities include:

- lead and implement transport planning and traffic engineering projects based on Kineo's analytics portfolio;
- contribute to the preparation of tenders and research proposals;
- contribute to the definition of innovative products, services, and business models.

Qualifications and skills:

Required:

- MSc/PhD in a relevant scientific field, such as Engineering, Mathematics, Physics, Geography or Economics, preferably with background in Transport Engineering and/or Transport Economics.
- Outstanding academic record.
- Basic knowledge of concepts, principles and theories of transport and traffic modelling.
- Strong mathematical and statistical background.
- Excellent analytical and numerical skills.
- Excellent English and Spanish oral and written communication skills.

Nice to have, but not indispensable:

- Experience in transport planning and/or traffic management projects.
- Experience/knowledge in transport simulation software packages (e.g., VISUM, Aimsun, TransCAD, CUBE, etc.).
- Experience/knowledge in Geographic Information Systems (GIS).
- Experience/knowledge in the use of new data sources (e.g., mobile phone records, GPS tracks, Bluetooth, public transport smart card, etc.) for the analysis of mobility and transport demand.
- Experience/knowledge in mathematical programming and data analytics.
- Experience/knowledge in data visualisation.

To apply for this position, please email your CV along with a covering letter to rrhh@nommon.es