

## JOB OPPORTUNITY - DATA SCIENTIST

*Systematica is a Transport Planning and Mobility Engineering consultancy that operates at different scales: from regions to cities and from urban developments to complex buildings. Systematica has an internal research unit - TransformTransport - that investigates the ever-changing world of mobility and transportation and promotes research initiatives focusing on innovative mobility solutions.*

Systematica is participating in a **European research and development project funded by the Horizon 2020 Programme**, with main aim **to support a fair women's inclusion in transport systems**. Systematica will be leading the project's tasks related to the identification, collection and analysis of different data sources (including studies, surveys, social media, Big data, traffic data, available data on transport users, employees, transport network data, open location-based data, etc.), which can provide a better understanding of gender patterns in transport sector. New datasets will be compiled allowing the development of a new actionable knowledge that can influence the future of transport systems and make them more inclusive.

Within the frame of this project, Systematica is **looking for a highly motivated intermediate/senior data scientist**. Ideal candidate will be a PhD graduate or post-doctoral researcher, **with experience on research projects in the fields of transport and mobility and a strong interest towards innovative behavioral data analysis**. Previous experience on gender studies (or specific social patterns) would be an asset.

The selected candidate will work in a multidisciplinary team and in an international environment in partnership with companies and universities of different EU countries. He/she will oversee research and development activities, handling a wide range of data questions and carrying out qualitative/quantitative data collection, analysis and reporting. He/she will support the drafting and publication of reports, source and write scientific articles and contribute to dissemination tasks within the project. The selected candidate is required to participate in project meetings or conferences in Italy and abroad.

The position is a full-time equivalent position with flexible organization of working time. Working place: Milan, Italy. Compensation commensurate with experience of the candidate. Duration: 32 months (under yearly renewable contract). Start of the assignment: as soon as possible.

Application should be sent by email to the following address: [jobs@systematica.net](mailto:jobs@systematica.net) (indicating in the subject "JOB\_H2020\_DATA SCIENTIST"). **Deadline for application: 14 February 2019.**

### Job requirements:

- Excellent knowledge of English language (reading, writing and speaking).
- Degree in economics, sociology, psychology, computer science, math, statistics, engineering, transportation science, data science or urban planning. Candidates with degrees in economics, business, sociology, psychology, computer science, math, engineering, data science and statistics must demonstrate an interest in transportation and cities.
- Excellent data gathering, analytical, problem-solving, and consulting skills.
- General knowledge of common primary and secondary sources of data, as well as a curiosity for exploring, discovering, and using new sources.
- At least two to three years of professional experience in data analysis is preferred.
- Strong written and oral communication skills including the ability to publish research results, prepare reports and present the results of scientific investigations at national and international conferences and stakeholder meetings.
- Proficiency with a variety of data collection and presentation software and technology.
- Knowledge of GIS mapping and analysis is an asset.
- Experience in gender studies (or other specific social patterns) is a plus.
- Microsoft Suite, including Excel, Access, and PowerPoint.
- Basic knowledge of manipulation technology or scripting language – R, SQL, PowerShell, Python, Regular Expressions, MATLAB, etc. - would be a plus, but not mandatory.

Tasks of this position will include:

- Support definition of ad hoc methodologies and technical requirements for the transport related data collection.
- Support implementation of data collection campaigns from multiple sources at European level - including surveys, social media, Big data, traffic data, available data on transport users and employees, transport network data, open location-based data, etc.
- Define user's engagement strategies for data collection.
- Implement tasks related to data collection, filtering, selection, processing, validation of transport-related data sources.
- Support the development of new datasets aimed at increasing the understanding of women's needs in transport systems and assist the data management of all data gathered, generated and stored along the project implementation.
- Assist different activities of analysis on collected data (socio-economic, demographic and psychological analysis, computational analysis, etc.).
- Present data analysis in clear and compelling ways, including data visualization.
- Track key performance indicators and benchmarks and collaborate with colleagues and project partners to answer specific questions through data analysis.
- Produce high quality scientific and/or engineering papers suitable for publication in quality journals and for presentation at national and international conferences.
- Contribute to thematic coordination of workshops on relevant topics.
- Work effectively as part of a multi-disciplinary research team to undertake independent scientific investigations and carry out associated tasks under the guidance of more senior Research Scientists/Engineers.
- Regularly reports results and drafts project reporting documents and deliverables.
- Participate to project coordination conference calls or meetings in Italy and abroad.