

PTOLEMUS Consulting Group is a small but fast growing strategy consulting firm specialised in location-based services and telematics. With consultants in Brussels, Paris, London, Milan, Hamburg, Chicago and Boston, the firm undertakes assignments across Europe and North America.

PTOLEMUS is a recognised consultancy in the promising *connected vehicle domain*. As such, it is interviewed or mentioned by publications such as *The Economist*, *The Wall Street Journal* and *ITS International*. Its clients includes entities such as Axa, Generali, Goldman Sachs, Intel, Nokia, TomTom, Toyota, Zurich Insurance, etc.

We offer strong industry expertise and apply strategy methodologies for a large range of clients - Car makers, content providers, insurers, investors, mobile operators, telematic service providers, public authorities and technology suppliers, etc. Our assignments range from strategy definition to business development and are generally international in their nature.

MULTI-POS Experienced Researcher (ER) - 22 months - Brussels

Research topic: Location techniques, ecosystem and business model for 2020 urban mobility

MULTI-POS (Multi-technology Positioning Professionals) is a prestigious Marie Curie Initial Training Network (ITN), funded by the European Commission, that addresses challenging research topics in the field of wireless geo-location and offers a comprehensive multi-dimensional and cross-boundary training to 15 selected researchers from all over the world. The research and training parts in MULTI-POS are fully integrated and there is a strong contribution of the private sector into the researchers' formation.

The main objectives of the MULTI-POS network are: to bridge the gap between the lower technology layer and the upper application layer involved in wireless mobile positioning and navigation, to create novel methods, technologies and business models for the future location-enabled wireless devices, to improve the career perspectives of selected researchers in both public and private sectors, and to create a community of researchers capable of exploiting synergies and complementarities between various fields involved in location and navigation, such as engineering, social sciences, and business. See also www.multi-pos.eu

Description of the position

You will work on three types of assignments: internal research projects, participate to client assignments and your MULTI-POS research, that will have the highest priority. The objectives of your MULTI-POS research will consist in

1. Develop a gap analysis between positioning requirements for mobility in 2020 cities and what current commercially available wireless technologies provide;
2. Understand how identified and potential future positioning technologies can bridge this gap (own or combined);
3. Define the conditions for these technologies to successfully develop new ecosystems of services, in terms of value chain & business models.

This research will focus on 4 domains, namely crisis & emergency management, road charging, retail (indoor) location and multimodal transportation.

You will call on numerous sources including a review of literature, interviews with technology and application companies along with subject-matter experts in the 4 domains, the use of PTOLEMUS' existing intellectual capital, a review of applicable patents and research programmes globally, a 3.5-month secondment at VU Amsterdam, The Netherlands on crisis

management and a 2-month secondment at GEODAN, Amsterdam, The Netherlands to perform experimental platform testing; and finally exchanges with MULTI-POS partners.

You will first establish a diagnostic of current, state-of-the-art technologies and related gaps in the domain. You will then define the needs of urban mobility in the 4 domains in 2020 and project what positioning technologies will be able to achieve at that time. Finally, you will define how the implied gap can be matched by new business models, ecosystems, technology combinations or new technologies.

You will work in PTOLEMUS offices in Brussels and be supervised by PTOLEMUS' Managing Director, based in the same office, and its Research Director, based in London. You will benefit from both formal training on key consulting skills and on-the-job training, notably by participating to other PTOLEMUS research or client projects.

PTOLEMUS is located at Rue Cervantes 15 in Brussels, Belgium, within 20 minutes of the city centre thanks to 3 tram lines.

Your profile

- A highly motivated scientist with excellent research skills and analytical abilities,
- The interest to work as part of a consulting start-up with hands-on responsibilities,
- Fluency in English (both spoken and written),
- The ability to work autonomously in a small office with both local and remote colleagues, other MULTI-POS researchers and PTOLEMUS clients,
- Proactive communication skills and problem solving as part of a team, great work ethic and the ability to take initiatives,
- The ability to produce deliverables such as academic publications, patent submissions, presentation to clients, research reports, market models, etc.
- Ideally a background in positioning and navigation, telecommunications, geographic information systems, communications engineering, computer engineering, electronics, software engineering, or mathematics.

To be eligible, candidates must, at the time of recruitment (i) be in possession of a doctoral degree (PhD) or (ii) have at least 4 years of full-time equivalent research experience, including the period of research training, after obtaining the degree which formally allowed them to embark on a doctorate in the country in which the degree/diploma was obtained or in the host country (irrespective of whether or not a doctorate was envisaged).

The research experience of an ER recruited for initial training may not exceed 5 years at the time of the appointment. The applicant may not have lived for more than 12 cumulative months in Belgium during the 36 months preceding the recruitment date. Short holiday stays are not counted. Candidates may be of any nationality.

Your remuneration

You will benefit from a competitive salary including a mobility allowance according to Marie Curie salary policy (FP7-PEOPLE-2012-ITN). This means a gross remuneration of at least €42,000 per year.

How to apply

Please send to join@ptolemus.com a motivation letter, full CV including a list of publications, scans of certificates and transcripts of records of the academic degrees (PhD, MSc, BSc) preferably with English translation, possible reference letters of previous supervisors or employers, recommenders' contact details (up to 3), and any other relevant documents.