

Post-Doc Project Manager for Optimized Management and Deployment of Autonomous Vehicles Fleets

This position is at the Faculty of Engineering Sciences of [Vrije Universiteit Brussel](http://www.vub.ac.be/en/). The candidate will work in the research group [MOBI](http://www.vub.ac.be/mobi) (Mobility, Logistics and Automotive Technology Research Centre). [MOBI](http://www.vub.ac.be/mobi)  is a top-notch research group with an international reputation in the fields of sustainable transport and its integration in the energy system. It has an international and multidisciplinary team of 100 specialists and currently participates in 25 running EU projects. MOBI is now involved in a University Strategic Research Program on the topic of autonomous vehicles. The program addresses the impact of vehicle automation on the mobility and logistics system in particular, and on society as a whole, taking into account technical and societal aspects. In this context we are looking to hire a ***Post-Doc Project Manager for Optimized Management and Deployment of Autonomous Vehicles Fleets.*** The concerned research aims the ***optimal energetic management of a fleet of automated electric*** vehicles and their integration in in the electric grid with the maximal use of renewables. The answer will be generated through modelling of automated vehicles at individual and fleet level based on real-life driving (big) data, the calculation of aggregated fleet routing for lowest consumption through multi-agent and network models, the development of self-learning algorithms, and the integration of the charging scheme in the management of an electricity grid in a vehicle-to-grid context.

**Tasks**

* Conducting and coordinating R&D according to the workplan of the project (including literature studies, simulations, data analysis, measurements etc)
* Supervising and coaching PhD students
* Disseminate research results through conferences and journal publications
* Support in the development of new projects in the field

**Entrance requirements and Skills**

* An academic PhD degree in data science
* Knowledge of big data analytics, artificial intelligence and agent-based modelling
* Knowledge of electric vehicles and energy systems
* Excellent communication skills in English (speaking and writing), knowledge of Dutch is added value
* Ability to work both in a team and independently while carrying out complex tasks
* Proactive and able to take initiative

**Our offer**

* Competitive Salary
* Hospitalization cover
* Free use of public transport for travel to and from work
* Extensive sporting facilities and a nursery on campus
* Young, international and challenging work environment at the cutting edge of innovative research in collaboration with several industrial partners

**Deadline for** **application:** 31/08/2019

**Starting date:** As soon as possible

**How to apply?**

Please send the following documents to:**ashleigh.hruz@vub.be**

* CV
* A concise statement of the reason for applying
* Copy of the highest diploma