OPEN E.S.R. POSITION
Universitat Autònoma de Barcelona

The position is funded by the Marie Curie ITN MAnET "*Metric Analysis for Emerging Technologies*"
                    http://manet.dm.unibo.it/index.php
The selected candidate will work at the UAB node of the network, and take active part in all the events organized by the network.

Duration: 3 years

Starting date: September 2014

Salary: 33000 €/year aprox. (before taxes)

Academic requisites: applicants need to prove they have less than 4 years (full time) of researhc experience; it is also required to have a Master degree.

Mobility requisites: applicants should demonstrate they have not been living in Spain for longer than 12 months during the last 3 years.

Recommended formation: Any knowledge in some of the following areas might be of interest in the selection process: mathematical analysis, geometric analysis, partial differential equations, optimal mass transport, geometric measure theory, geometric function theory, machine learning, optimization, programming.

Host research group: mathematical analysis group (UAB), in collaboration with TSS

Job description: The selected researcher will prepare his/her Ph.D. Thesis on
                "*Urban traffic problems in optimal mass transportation*"
The thesis will have a theoretic part and an applied part. The link between them is the so-called "Wardrop Equilibrium". The project will be developed in close collaboration between public and private institutions:
- the Department of Mathematics at Universitat Autònoma de Barcelona (UAB) http://uab.cat/matematiques/
- Transport Simulation Systems (TSS) http://www.aimsun.com/wp/

Among the topics to be developped during the thesis preparation,
- UAB: optimal mass transportation, partial differential equations, mathematical analysis, geometric measure theory, geometric function theory
- TSS: optimization, machine learning, origin-destination problems, traffic modelling

The selected candidate will also take active part in all the events of the MAnET network.

Deadline for applications: may 30th, 2014

How to apply: Send an email to departament@mat.uab.cat with the following documents:
- PDF copy of the aplicant's curriculum vitae
- PDF copy of the aplicant's identity document (with photo)
- short presentation letter (including research interests, short description of the master thesis, etc)
- the name and email adress of 2 reference persons

More info: http://manet.dm.unibo.it/recruitment