

**GREThA-University of Bordeaux is currently opening a position for a**

**POST-DOCTORAL RESEARCHER**

The Research Group on Theoretical and Empirical Economics (GREThA UMR CNRS 5113) at the University of Bordeaux (France) invites applications for a post-doctoral position beginning spring 2018 (or as early as possible). The position is designed to foster research related to the project *Highly Skilled Migration and International Flows of Talent, Knowledge, and Capital (TKC)* funded by the French National Research Agency (ANR), with Dr Ernest Miguelez as Principal Investigator. The project aims at understanding the multiple relationships between high-skilled migration, knowledge diffusion, and international capital flows, and the selected candidate will be conducting work with a working group including also Francesco Lissoni, Eric Rougier and Valerio Sterzi.

**Requirements:**

- PhD in Economics or related fields, preferably on innovation-related topics, either completed or to be completed before May 2018. Background in engineering or data science would be a plus
- Proven ability and a taste for handling large datasets, including experience with programming languages such as SQL, Python and the likes. Experience with record linkage tasks (disambiguation, entity resolution, data matching) would be a plus
- Knowledge of or interest into patent data and/or bibliometric indicators. No prior knowledge of migration economics is required
- Skills in applied econometrics and data analysis, including experience with commercial and/or free software (e.g. Stata vs R).
- Good command of English. Knowledge of French would be a plus

**Project Summary:**

The TKC project aims to improve our understanding of the way in which highly skilled migrants activate their social networks and to what extent they contribute to solve cross-border information and agency problems, building upon Miguelez (2016) and Breschi, Lissoni and Miguelez (2017). The working hypothesis is that highly skilled workers can be regarded as national/ethnic as well as professional diasporas, which create trust and pass information over long distances, thus reducing international transaction costs and increasing diffusion of technical knowledge. TKC has a strong engagement towards collecting and sharing micro-data.

- Breschi, S., Lissoni, F. and Miguelez, E., 2017. Foreign-origin inventors in the USA: testing for diaspora and brain gain effects. *Journal of Economic Geography*, 17, 5, pp. 1009–1038
- Miguelez, E., 2016. Inventor diasporas and the internationalization of technology. *The World Bank Economic Review*, forthcoming

### **Job description:**

The Candidate will be mostly involved in the creation and exploitation of one or more datasets among different groups of high-skilled workers:

- *Inventors and related patents*, to be traced by disambiguating information contained in PatStat, the Worldwide Patent Statistical Database together with complementary information contained in patent documents
- *Executives*, to be identified through the Boardex database and Orbis biographical information on managers

Econometric tasks will include one or more of the following:

- gravity model estimation of country-level, bilateral flows of information (patent and non-patent literature citations, technological exports) and capital (FDIs, M&As, and joint ventures), as a function of bilateral highly-skilled migration flows
- matched-control study of foreign investors' choice of target countries, as a function of presence and role of highly skilled migrants in their R&D labs (inventors) and executive boards

The Candidate will be required to provide creative solutions to any technical issue met in the data handling and analysis process, as well as to contribute to better framing the research questions of the project and drafting one or more research papers. She/he will be given the opportunity to deepen her/his knowledge of economics of innovation and/or migration, as well as of the necessary tools, also through participation to seminars and summer schools.

### **Contract features:**

- 24-month, full time contract
- Starting date: Spring 2018, depending on date of PhD completion
- Payment: around 31.000€, pre-tax salary, plus employer's Social Security payment, plus travel package
- Location: Bordeaux (France)

### **Application instructions:**

- Application deadline: December 28th, 2017.
- Candidates should send their CVs, one published or working paper, and the name, affiliation, position and contact details of at least two reference persons (including the PhD supervisor) to: [ernest.miguelez@u-bordeaux.fr](mailto:ernest.miguelez@u-bordeaux.fr) indicating in the subject of the message '**Application for postdoc position**'.