



Research Data Analyst Assistant Position for prof. Marta Reynal's ERC Project

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19/12/2022

Job Information

Organisation/Company	UNIVERSITAT POMPEU FABRA
Department	Department of Economics and Business
Research Field	Economics » Econometrics
Researcher Profile	First Stage Researcher (R1)
Country	Spain
Application Deadline	02/01/2023 - 10:00 (Europe/Madrid)
Type of Contract	Permanent
Job Status	Full-time
Hours Per Week	35
Offer Starting Date	Wed, 02/01/2023 - 12:00
Is the job funded through the EU Research Framework Programme?	HE / ERC
Reference Number	EC-HEu-ERC-AdG-101055142
Is the Job related to staff position within a Research Infrastructure?	No

Offer Description

Professor Marta Reynal is looking for a research assistant to join her ERC- sponsored project "Colonization, Early Institutions and the Origin of State Capacity and Democratization" financed by the European Council, Horizon Europe (HEu) an European Research Council (ERC).

This position will support tasks in data and statistical data processing, as well as the performance of statistical analysis (econometrics) and machine learning:

1. Calculations of different measures of inequality using Big Data:

- Satellite images (work with GIS and Python data, since the ERC project requires the geolocation of the different surnames and their temporal evolution by zone).
 - Microdata, both banking and other types that we are discovering during the research.
2. Data scrapping files from large databases.
 3. Coding of historical archive data.
 4. Text recognition of old books necessary to determine the relevant economic institutions in each area.

To achieve these tasks, the following knowledges are necessary:

- High level of R programming language demonstrable with own code.
- Knowledge and experience in processing information in GIS format.
- Advanced knowledge of econometrics and ability to apply new techniques based on R programming.
- Knowledge applied to banking microdata and experience in processing this type of data.
- Knowledge of text analysis, image processing, and "data scrapping".

Requirements

Research Field Computer science » Programming

Education Level Master Degree or equivalent

Research Field Economics » Econometrics

Education Level Master Degree or equivalent

Skills/Qualifications

- Suitability of the candidate to the tasks to be carried out.
- Curricular experience.
- Be a PhD student in Economics or at least have a Master's in Data Science or similar.
- Domain in coding with PL/SQL, R or Python.
- Experience with code performance monitoring.
- 3 years or more of demonstrable experience with advanced data analysis.
- Very good command of Microsoft Office.
- Excellent teamwork skills.
- Excellent communication skills.
- Proficiency in English or Spanish (ideally both).

Languages ENGLISH

Level Excellent

Languages SPANISH

Level Excellent

Research Field Economics » Econometrics Mathematics » Statistics

Years of Research Experience 1 - 4

Research Field Economics » Econometrics

Additional Information

Benefits

Approx. annual gross salary up to EUR 35.000

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Selection process

The selection process will be published at:

<https://www.upf.edu/web/econ/research-project-positions>

Website for additional job details

<https://www.upf.edu/web/econ/research-project-positions>

Work Location(s)

