

4 years PhD candidate position in Economics, other Social Sciences, or Data science

Call for expressions of interest

The Institute of Public Goods and Policies (IPP), from the Consejo Superior de Investigaciones Científicas (CSIC), and located in Madrid, is opening a 4-year fully funded PhD position in Economics, other Social Sciences or data science. The position is funded by the research Project "Careers of doctorate holders in Spain: employment sectors, scientific and innovation outputs and environment" (INNDOC). The project Principal co-Investigators (P.I.s) are Laura Cruz-Castro and Ernest Miguelez.

The INNDOC project aims to improve the understanding of the diversity of doctoral careers in Spain, focusing on how links between science, industry and innovation are fostered, paying attention to differences by discipline and gender. The doctoral thesis, to be supervised in the framework of the project, will focus on one or more of the project objectives which are: (i) to characterize doctoral careers in Spain over the last two decades, (ii) to analyze the relevance of the academic and R&D environment in the employment destinations of PhDs, (iii) to understand the role of research collaboration and networks in scientific and innovative outcomes, as well as in the diversification of research careers and the increase of science-based innovation in the private sector through knowledge circulation and collaboration, (iv) to explore the dynamics of PhD students' expectations and entry positions in the labor market, and (v) to provide evidence and analysis of the possible existence of gender differences. The doctoral thesis will have an important component of quantitative and econometric methodology, as well as data collection, creation and analysis, as well as survey based research.

Although the dissertation will be developed at IPP, the IPP-CSIC is NOT a PhD granting institution. Therefore, the prospective candidate will need to be admitted in a PhD program at a Spanish University.

The contracted researcher will:

- Develop knowledge and understanding of thesis repositories data, publication data, and patent data.
- Use econometrics, big data, and machine learning techniques.
- Access a network of prestigious European institutions involved in similar projects (e.g., U. Bordeaux, U. Utrecht, and U. Kassel).

- Present her/his work at prestigious conferences.
- Attend doctoral courses provided by the PhD granting institution as well as thematic summer schools in Spain and Europe

Requirements and searched profile:

- The candidate must hold a Master's Degree (or a Bachelors' degree of at least 300 credits). Preferred Master's Degrees are in economics, sociology, political sciences, bibliometrics, computer science, statistics, and mathematics.
- The ideal candidate is interested in quantitative analyses using individual-level data and has high-level programming skills.
- The ideal candidate is fluent English.
- Knowledge of Stata, SQL, R and Python, as well as interest in econometrics and causal inference, will be valued.

We offer:

- The commitment of two P.I.s Laura Cruz-Castro and Ernest Miguelez, as well as other team members, including Catalina Martínez, Luis Sanz-Menéndez, Adelheid Holl, and Alberto Corsini, that will operate as mentors and supervise the PhD.
- The possibility of visiting periods abroad in leading universities that are members of our professional networks.
- The financial support for participating in conferences and doctoral schools.
- A multidisciplinary environment where the PhD student will work in contact with economists, computer scientists, sociologists, and mathematicians.
- A lively scientific environment characterized by frequent visits of leading international scholars, an intense program of scientific seminars, and collaboration between public and private institutions.

Contract features:

- Duration: 4 year, funded
- Expected starting date: first part of 2025
- The amount of the salary of the predoctoral contract currently ranges from approx.
 18000 € in the first year to 23000 € gross plus benefits in the fourth year and is annually updated by the Ministry of Science, Innovation and Universities
- The workplace is in Madrid, at the IPP premises (c/ Albasanz 26-28). However, short-term stays at other national and international research institutions are also possible

Expression of interest instructions:

The candidate should send an expression of interest package to <u>laura.cruz@csic.es</u> or <u>ernest.miguelez@csic.es</u> including:

- 1) a motivation letter (maximum one page) with contact details.
- 2) a CV (maximum two pages) and a record of grades.
- 3) Suggested: the contact details of a reference professor or researcher, or a reference letter.

Expressions of interest will be considered until October 31th, 2024.

Eligible candidates will be contacted and interviewed by an internal committee at the end of October or early November 2024 (online interview).