

Postdoc Position

Industrial & technological transformation

Science of Cities team @ Complexity Science Hub Wien

€ 56.800 gross/year

*according to the standard personnel costs and salaries of the Austrian Science Fund FWF



The [Complexity Science Hub Vienna](#) is a young research institution dedicated to a deeper quantitative and predictive understanding of complex systems for the betterment of society. We provide an exciting, creative, bureaucracy-free environment for open-minded visionaries who want to make a change and are brave enough to step out of mainstream science.

Postdoc position on Industrial & Technological Transformation

POSITION

We offer a 3-year position as a postdoctoral researcher in the Science of Cities team, led by Frank Neffke, at the Complexity Science Hub in Vienna (CSH), Austria. We are looking for excellent candidates who are highly motivated to apply modern quantitative methods to study the long-run co-evolution of scientific, technological, and industrial transformation and its impact on regions and cities. The project will make use of data that span over the course of a century. Possible topics include the study of long-term patterns of technological change, the relation between migration and structural transformation, and the spatial footprints of multiregional and multinational firms. The successful candidate will collaborate closely with scholars from the Growth Lab at Harvard University, led by Ricardo Hausmann. Consequently, the position is likely to involve extended stays in Cambridge, MA (US).

RESEARCH TEAM

The position is part of the *Science of Cities* research team at CSH Vienna. The research team's goal is to understand the role of cities in economic, scientific and technological progress. To do so, it aims to be at the forefront of using advanced statistical and data-science tools to analyze the people, firms and regions involved in scientific, technological and industrial transformation.

YOUR RESPONSIBILITIES

- analyze structural transformation in science, technology and the economy taking a long-term perspective;
- collaborate with scientists at CSH and scholars at the Harvard Growth Lab with the aim to write high-quality academic papers on this topic;
- participate in an international network of scholars. Although the main place of work is Vienna, the successful candidate may spend substantial amounts of time in the Cambridge (US) area;
- support the scientific mission of the Science of Cities team and the wider CSH community;
- help develop the research agenda of the Science of Cities team, including grant writing and outreach activities;
- postdoctoral candidates are furthermore expected to help coach PhD students and other junior members of the team.

YOUR PROFILE

- background in economics, management science, economic geography, or related fields with a strong interest and understanding of working with large datasets; or
- background in computer science, physics, applied mathematics or related fields with a strong interest in economics, management science and economic geography;
- proficient in data analysis using Python/R;
- ability to work/learn working with high-performance distributed computing environments.

WE OFFER

A position in a dynamic, creative, internationally oriented, appreciative and open working environment. The Hub hosts scholars with a wide variety of backgrounds and is an excellent place to acquire and/or deepen skills in data science, data visualization, as well as mathematical modeling and computational social science. The variety of projects at the Hub will allow the successful candidate to engage in new and timely topics and to collaborate with world renowned scientists.

APPLICATION

To apply, please submit your CV, a motivation letter that includes your vision (What is your vision for scientific research? What would you like to discover in your future scientific life? Why are you interested in the topic of industrial and technological transformation) as well as any additional material that helps us understand that you are the right person for this position, with the subject line "Postdoc Industrial Transformation" to office@csh.ac.at. We will start evaluating applications from August 7, 2022. Applications should provide one reference letter and name three additional references for the search committee to contact.

CSH is committed to the principle of equal employment opportunity for all applicants. All employment decisions are therefore based on job requirements, qualifications, merit, and organizational needs. We strongly encourage individuals from underrepresented groups to apply.

The CSH Vienna processes your personal data in accordance with the law (www.csh.ac.at/data-protection/).