

Postdoc Position

Skill, cities, and the future of work

Science of Cities group @ Complexity Science Hub

€ 60.926 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 skills, cities, and the future of work

POSITION

We offer a 2-year position as a postdoctoral researcher in the Science of Cities group, led by Frank Neffke, at the Complexity Science Hub in Vienna. We are looking for excellent candidates who are highly motivated to apply modern quantitative methods to study local labor markets in times of structural transformation. The successful applicant will be embedded in an interdisciplinary team of researchers with backgrounds in economics, economic geography, computer science, and complexity science. Possible topics include the study of the relation between skills and technological change, between migration and structural transformation, labor market consequences of the green transition, and the spatial footprints of multiregional and multinational firms.

RESEARCH GROUP

The position is part of the *Science of Cities* research group at the Complexity Science Hub. The research group's goal is to understand broadly the role of cities and urban systems as places where large, complex teams, and value chains can be coordinated. 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

- support the scientific mission of the Science of Cities group and the wider CSH community through publications and research projects;
- collaborate with scientists at CSH with the aim to write high-quality academic papers on this topic;
- participate in an international network of scholars, including the Santa Fe Institute and the Growth Lab at Harvard University.
- help develop the research agenda of the Science of Cities group, 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 and/or STATA;

WE OFFER

The successful applicant will be embedded in an interdisciplinary team and be able to acquire skills in the use of large scale datasets, machine learning and natural language processing, regression analysis and causal inference, and complex network analysis. The Science of Cities group maintains several research collaborations with the Growth Lab at Harvard University. Furthermore, as part of the Complexity Science Hub, the Science of Cities group offers a dynamic, creative, internationally oriented, appreciative, and open working environment. The Complexity Science 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 Complexity Science 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 explore in your future scientific career? Why are you interested in the Science of Cities group?) as well as any additional material that helps us understand that you are the right person for this position, with the subject line "Postdoc Science of Cities" to applications@csh.ac.at. We will start evaluating applications from November 30, 2023, and expect to start inviting candidates for interviews in the second half of January 2024. Applications should provide three references that the search committee may contact for further inquiries.

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