The Center for Humans and Machines (CHM) within the Max Planck Institute for Human Development is seeking a

Master Student Research Assistant

to work on a research project related to the Future of Work. The selected student will work under Dr Alex Rutherford and CHM Director Assoc. Prof. (MIT) Iyad Rahwan, Ph.D. in collaboration with Dr Zafer Kanik (MIT).

What we offer
The proposed project will look at the changing nature of workplace happiness in light of changes to the labour market caused by automation and Artificial Intelligence. Our previous work has shown that jobs and skills can be represented as a network\(^1\). This powerful modeling framework provides a new insight into labour economics with strong predictive power. In this project we propose to extend this work to model changes in aggregate workplace happiness by combining empirical data on job attributes & projected job growth and numerical simulation of employment dynamics.

Research assistants are usually employed on a basis of 41-80h a month. The position is to start immediately and is likely to last for 4-6 months.

Desired qualifications
The ideal student researcher will be undertaking a Masters in Computer Science, Physics, Applied Maths, Quantitative Social Science or a related discipline. The following are required

- Knowledge of network science and numerical modeling, most likely through Masters level classes and projects.
- Experience with suitable programming packages such as networkX, igraph or graph-tool in Python (preferred) or R.
- Knowledge of network simulation methods such as diffusion on networks and preferential attachment.

Application Details
The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds. The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Please send your application without a photo, as one single PDF-document to rutherford@mpib-berlin.mpg.de. The application should include (a) a short motivation letter, (b) CV, and (c) relevant school/university certificates and references.

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1 Unpacking the polarization of workplace skills https://advances.sciencemag.org/content/4/7/eaao6030
2 Toward understanding the impact of artificial intelligence on labor https://www.pnas.org/content/116/14/6531