

# Industrial Strategy and Competitiveness Research Using Innovative Data Analytics

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## Summary

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*A research team working on industrial strategy and competitiveness using innovative data analytical methods and tools is looking for a PhD student interested in economic complexity and global value chains. The PhD student would join the two on-going international projects, carried out in co-operation with outstanding research partners.*

Research field:	Economics and finance
Supervisors:	Prof. Dr. Tarmo Kalvet Dr. Marek Tiits
Availability:	This position is available.
Offered by:	School of Business and Governance Department of Business Administration
Application deadline:	Applications are accepted between September 01, 2021 00:00 and September 30, 2021 23:59 (Europe/Zurich)

## Description

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The research group is driven by the understanding that the living standard of nations depends fundamentally on their ability to earn export revenues. The dependence on foreign trade is especially obvious for small(er) economies. However, not all products are the same in terms of their potential to contribute to the increase in living standards. Evolutionary economics maintains that in order to increase living standards, nations should increase the knowledge intensity of products. Research on economic complexity operationalises this by focusing on the ubiquity and relatedness of products, and the analysis of potential pathways for entering more complex product groups. Open-data, big-data, and other novel data science approaches are currently seen as transforming the landscape for socio-economic policy and research, as well as for business management and decision-making.

The objective of the research project is to develop research methods, with a particular focus on advanced data analytics skills to be exploited to conduct improved analysis of global value chains (GVCs) and clusters, and to identify and analyse the impact of relevant public policies.

As part of the CatChain project ("Catching-Up along the global value chain: business models, determinants and policy implications in the era of the Fourth Industrial Revolution", 2018-2022), fully funded short term research trips (in total up to 12 months) to Seoul National University (South Korea), University of Malaya (Malaysia), University of Campinas (Brazil) and to our other strategic research partners, are available and highly encouraged.

The researcher will be also part of the H2020 project "Industrial Strategy and Competitiveness Studies at Tal-Tech" (2020-2023). This project develops strategic partnership between TalTech as the beneficiary, and Bocconi University (Italy), Aalto University (Finland) and NESTA (United Kingdom).

### **Applicants should fulfil the following requirements:**

- Master's degree in economics or policy/governance studies or ICT
- Very good command of English
- Very good qualitative and quantitative (such as R) research skills



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