International Conference

Skills for the **Future**: **Navigating** the **Digital**, **Green**, and **Social Transitions** in **European Labour Markets**

30-31 October 2023 | @ Halle des Poches à Fonte, Campus Belval

Programme

30 October 2023

10:30 - 11:15 **Registration and welcome coffee**

11:15 - 11:40 **Welcome**

Prof. Christina Gathmann, *Director of the Labour Market Department (LISER)*

Video message from Nicolas Schmit, *Commissioner for Jobs and Social Rights (European Commission)*

11:40 - 13:10 **PANEL 1 : Measuring and assessing skill shortages and gaps**

Chair: Ludivine Martin (LISER)

No Kids, No Tech: How Shortages of Young Workers Hinder Firm Technology Adoption
Caecilia Lipowski (ZEW)

Characterizing the (evolving) skill demand in shortage occupations
Gabriele Marconi & Inès Baer (ADEM)

Labour shortage in Western EU countries: Exploring the Impact of Migration and Skill Shifts
Ronald Bachmann (RWI)

Skill shortages: demographic change, educational choices and matching in the VET market
Bernd Fitzenberger (IAB)

13:10 - 14:10 **Standing Lunch**

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14:10 - 15:40 **PANEL 2 : Key drivers of skill gaps and demands in the context of the green transition**

Chair: Bernd Fitzenberger (IAB)

How green are jobs needed for the energy transition?
Daniele Gasparini (Maastricht University)

Green and brown occupations, and labour market dynamics: Evidence from Belgium
Mikkel Barslund (KU Leuven)

Worker flows in the low-carbon transition
Christina Vonnahme (RWI Essen)

15:40 - 16:10 **Coffee Break**

16:00-17:00 **ELMI Network Meeting (for ELMI network members only)**

16:10 - 17:40 **PANEL 3 : Economic and social implications of skill gaps and mismatches**

Chair: Joël Machado (LISER)

Worker Mobility and Labour Market Opportunities
Peter Spittal (University of Bristol)

Firm Sorting and the Economic Assimilation of Refugees
Hiromi Yumoto (University of Birmingham)

Biased expectations and labor market outcomes: Evidence from German survey data and implications for the East-West wage gap
Susanne Forstner (IHS)

17:40 - 18:40 **Keynote**

Directed Technical Change: How the direction of innovation shapes labor and energy markets and how policies can affect its course
Prof. David Hémous, University of Zurich

20:00 **Conference Dinner, Luxembourg City (by registration only)**

(Bus departure from LISER/Maison des Sciences Humaines : 19:15 - Return to Belval : 22:15)

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31 October 2023

08:00 - 09:30 **PANEL 4 : Firm skill demand and technology adoption**

Chair: Terry Gregory (LISER)

Advertised Technologies: Identifying Adoption of Emerging Technologies in Online Job Postings
Fabien Petit (University College London)

Task Shifts in the Fourth Industrial Revolution - Firm-Level Evidence
Terry Gregory (LISER)

This Job Ain't What It Used to Be: Changes in Occupational Tasks and the Costs of Job Loss
Boris Ivanov (IAB)

09:30 - 11:00 **PANEL 5 : Skill demand in the digital transition**

Chair: Patrick Thill (LISER)

Task-specific adjustments in recessions
Nicola Cassandro (IAB)

Heterogeneous effects of automation: Evidence from Germany
Pelin Ozgul (Maastricht University)

Work Councils and the Effect of Automation
Oliver Schlenker (University of Konstanz)

11:00 - 11:15 **Coffee Break**

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11:15 - 12:45 **PANEL 6 : Emerging Artificial Intelligence and skill demand**

Chair: Christina Gathmann (LISER)

AI technologies, skills demand and employment: evidence from linked job ads data
Michael Stops (IAB)

The Diffusion of Artificial Intelligence: Implications for Wages and Employment
Eduard Storm (RWI)

AI and Cybersecurity skills in the UK manufacturing sector
Aida Garcia Lazaro (University of Bath)

12:45 - 13:45 **Standing Lunch**

13:45 - 15:15 **PANEL 7 : Strategies to incentivise employers to invest in training and development for their workforce**

Chair: Patrick Thill (LISER)

Digital Technologies, Job Quality and Employer-Provided Training
Felix Grimm (LISER)

Resilient Digital Skills: A Graph-Based Strategy for Optimal Training Policies
Thiago Brant & Ludivine Martin (LISER)

Anatomy of An Anonymous Hiring Pilot
Tuomo Virkola (VATT)

Reaching for the Top: How does productivity convergence influence firm's demand for apprentices?
Mantej Pardesi (Maastricht University)

15:15 - 16:15 **Keynote**

Labor Market Effects of AI and Robotic Technologies
Prof. Christina Gathmann, Director of the Labour Market Department (LISER)

16:15 - 16:30 **Press Conference,** *Halle des Poches à Fonte*

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