



TRAINEESHIP AT CEDEFOP

Would you like to gain professional experience in an international environment?

SKILLS TRENDS AND INTELLIGENCE: DATA ANALYSIS

WHAT THE TRAINEESHIP IS ABOUT	
Department/Service	Department for VET and Skills Area: Skills and Labour Market Team: Skills trends and intelligence
Project description	<p>The trainee will support the Skills trends and intelligence team that encompasses the following projects:</p> <ul style="list-style-type: none">• Skills in online job advertisements (OJAs);• European Skills Index;• Skills intelligence;• Skills forecast <p>The trainee will support the Skills trends and intelligence team that encompasses the following projects:</p> <ul style="list-style-type: none">• Skills in online job advertisements (OJAs): offers detailed information on the jobs and skills employers demand based on online job advertisements (OJAs) in 28 European countries. It is powered by Cedefop's and Eurostat's joint work in the context of the Web Intelligence Hub.• European Skills Index: Cedefop's European Skills Index (ESI) measures the performance of national skills systems using a composite indicator approach. ESI monitors countries' performance over time and provides insights into possible improvement areas. ESI delivers evidence that supports the EU policy framework for VET and skills, in particular the European Pillar of Social Rights and the European Skills Agenda.• Skills intelligence: Building on over a decade of experience in developing and disseminating skills intelligence, the project brings together Cedefop's analytical and research work to provide better and more synthetic evidence on current and future skills and labour market trends. Narrative-driven visualisations are used to help policy makers and other skills intelligence users understand what is trending in occupations, sectors, countries, and skills. Skills intelligence includes Cedefop's work on the green transition, as presented in Cedefop's Green Observatory.

	<ul style="list-style-type: none"> • Skills forecast: Mandated by the Council to forecast skill trends in supply and demand in Europe, Cedefop runs Skills Forecast every two years since 2010. The Cedefop results and methodology are validated by national experts representing a wide range of expertise including academics, labour market economists, econometricians and statisticians. The national experts represent all 33 countries covered by the Cedefop skills forecast.
Project outputs/outcomes	<ul style="list-style-type: none"> • Skills in online job advertisements (OJAs): the Skills-OVATE tool offers detailed information on the jobs and skills employers demand based on online job advertisements (OJAs) in 28 European countries. More information and relevant publications can be found here. • European Skills Index: previous and current dataset, as well as relevant publications can be found in the project page. • Skills intelligence: indicators, data and information on occupations, sectors and countries; a list of data insights on topics such as sectoral analysis, skills anticipation in EU countries etc. • Skills forecast: projections on skill demand and supply in Europe every two years. Visualisations based on results and access to the detailed data are available here. Analysis of Cedefop skill forecast results can be found in the relevant publications.
The trainee's main duties and tasks	<p>Trainee's tasks will be selected based on team priorities every quarter.</p> <p>The main envisaged tasks are expected to regard statistical analysis of socio-economic data and data-based visualisations. Tasks may regard:</p> <p>European Skills Index</p> <ul style="list-style-type: none"> • Statistical analysis and help in the preparation of the 2024 release; • Support in the development of visualisations and analysis based on 2024 results. <p>Online job advertisements (OJAs)</p> <ul style="list-style-type: none"> • Help in creating visuals based on OJA analysis; • Help in preparing analysis based on raw text of online job advertisements NLP sample (e.g. education variable, micro-credentials) <p>Skills intelligence</p> <ul style="list-style-type: none"> • Data preparation/checking for skills intelligence data insights (LFS, skills forecast and OVATE) • Development of data insights visualisations

	<ul style="list-style-type: none"> • Support the analysis of existing Cedefop research and findings on occupations, sectors and countries • Support analysis on skills relevant to the green transition <p>Skills forecast</p> <ul style="list-style-type: none"> • Support analysis based on 2023 skills forecast results <p>Depending on trainee's skills, tasks may concern:</p> <p>Online job advertisements (OJAs)</p> <p>development of new types of analytical products based on online job advertisement data</p>
Expected learning outcomes	<ul style="list-style-type: none"> - Gain experience in: <ul style="list-style-type: none"> • analysis of socio-economic data; • working with Big Data; • working with statistical data; • quantitative analysis; • developing data-based visualisations; • developing content for online platforms. - Better understanding of labour market analysis and use of skills intelligence in policy making.
ESSENTIAL REQUIREMENTS	
Academic background	<ul style="list-style-type: none"> • MSc or PhD (in progress or completed) in economics, data science or in applied statistics • Strong quantitative skills (data handling / statistical analysis); • Educational background and/or interest in labour market analysis; • English C1 level ; • ICT literacy
DESIRABLE	
Experience/exposure	<ul style="list-style-type: none"> • Knowledge of STATA • Knowledge of R-cran or Python • Knowledge of Tableau



Deadline for the submission of applications:
Thursday 16 March 2023 at 13:00 Greek time (CET+1)

Only applications submitted online will be accepted