

The European Central Bank has launched: [Traineeship in Statistics and Data Science](#)

General Information

Type of contract Traineeship

Who can apply? EU nationals eligible for our traineeship programme

Grant The trainee grant is €1,070 per month plus an accommodation allowance (see further information section)

Working time Full time

Place of work Frankfurt am Main, Germany

Closing date 07.10.2022

Your team

The Directorate General Statistics consists of around 350 staff members who provide statistical products and services, as well as a whole range of aggregated and disaggregated data, to inform not only central banking and banking supervision policy decisions, but also the public at large. We therefore collaborate closely with the European System of Central Banks (ESCB), national competent authorities, Eurostat, the banking industry and other international bodies.

You would be joining the Directorate General at a very interesting and challenging time, given that we are currently working on modernising the data culture of the ECB, ESCB and ECB Banking Supervision to improve its fitness for a digital and globalised world in a period of rapid financial innovation.

In your role as a trainee, you will be part of a team responsible for collecting data and/or designing, programming and producing statistical indicators, and will work alongside committed and qualified colleagues and leaders in this field with relevant stakeholders such as economists and banking supervisors.

The ECB is an inclusive employer and we strive to reflect the diversity of the population we serve. We encourage you to apply irrespective of age, disability, ethnicity, gender, gender identity, race, religious beliefs, sexual orientation or other characteristics.

Your role

As a Trainee in Directorate General Statistics you will:

- contribute to the work of the Directorate General or one of its divisions or sections;
- gain insight into the methodology, compilation and publication of macroeconomic statistics or large-scale granular/micro datasets in a policy-oriented environment;
- work in a team and/or independently under the guidance of a mentor, taking the initiative and interacting with other members of staff and management;
- have an opportunity to potentially complete a conceptual or empirical study, develop statistical tools based on machine learning and present the results at a seminar.

The position offers you excellent opportunities to contribute to the production and development of state-of-the-art statistics and indicators for fact-based decision making in the fields of monetary policy, financial stability and banking supervision. You will be part of a multicultural team that strives for continuous innovation to make a positive impact on the lives of European citizens.

Qualifications, experience and skills

Essential:

- a bachelor's degree or higher in statistics, data science, economics, finance, mathematics, computer science, operational research or another relevant field;
- a good knowledge of the MS Office package (in particular Word, Excel and PowerPoint);
- an advanced (C1) command of English and an intermediate (B1) command of at least one other official language of the EU, according to the [Common European Framework of Reference for Languages](#).

Desired:

- knowledge of:
 - economic statistics, data on financial markets and instruments; and/or,
 - international standards for statistics (for example, a national system of accounts or the European System of Accounts), business accounting standards (for example, the International Financial Reporting Standards); or,
 - banking or financial supervisory standards (for example, the Implementing Technical Standards of the European Banking Authority);
- familiarity with data and metadata management, including data collection, cleaning, validation, aggregation, visualisation, analysis and communication;
- familiarity with techniques, such as data science tools and machine learning, used in the management, analysis, modelling and visualisation of large datasets and unstructured data;
- familiarity with a statistical or mathematical software package (such as Python, R or SQL) and/or relational databases (such as DB2 or Oracle);
- programming skills and knowledge of programming languages.

You are curious and eager to learn, and want to further develop your ability to analyse complex information. You are keen to collaborate with others, pursue team goals and learn from other people's diverse perspectives. You strive to know and anticipate stakeholder needs, and will signal any need for change and propose alternative solutions.

You are motivated to contribute to the ECB's mission, to serve the citizens of the EU as a member of a public institution and to work with colleagues from all over Europe. You are keen to be part of our team and to use your skills and competencies to achieve the aims of this position.

Further information

Traineeship of between 6 and 12 months in total, to start between February and December 2023.

Application and selection process

Further information on how to join us is available on our [website](#).

The recruitment process for this position will include an online interview.

If you are not selected for this position but are still considered suitable, you will be placed on a reserve list for 12 months from the closing date for applications, from which you might be considered for similar positions within the ECB.