



TRAINEESHIP OPPORTUNITY

for students of PISA University
at the European Court of Auditors

DOMAIN:

**DATA SCIENCE
AND ANALYTICS**

DEADLINE:

4 MARCH 2019

The European Court of Auditors (ECA) offers traineeships in areas of interest to its work.

The ECA is looking for trainees with a strong background in **data science and analytics**.

Traineeships are **offered for a period of three, four or five months maximum, and are paid (€1350/month)**.

They are open to **students pursuing a master's or doctoral degree in one of the following disciplines: computer science, engineering, mathematics, chemistry, physics, economics, psychology, sociology, statistics, or equivalent**.

Preference will be given to applicants with experience in analytical techniques.



ADMISSION

In order to be eligible for a traineeship, applicants must:



be a national of one of the Member States of the European Union, except where a derogation has been granted by the appointing authority;



be students pursuing a master's or doctoral degree in one of the following disciplines: computer science, engineering, mathematics, chemistry, physics, economics, psychology, sociology, statistics, or equivalent;



wish to obtain practical training related to one of the ECA's areas of activity;



not have already benefited from a traineeship at any EU institution or body;



have a thorough knowledge of English; knowledge of other EU languages would be an advantage.

Candidates selected must provide:



a declaration from their national authorities that they have never been convicted or found guilty of any criminal offence (criminal record check), and



a medical certificate certifying that they are physically fit to perform their tasks.



THE TEAM

The trainees will work within the ECA data analytics team, called the *ECALab*.

The *ECALab* is:



a network of people, comprising various staff (IT specialists, auditors, statisticians, economists) with a special interest in big data, data analytics, text mining, visualisation, machine learning, etc.;



a space for technologies, where tools can be tested in real-life conditions;



a meeting place to share knowledge and ideas on technologies for audit;



a learning hub.

The *ECALab* is paving the way towards establishing data services tailored to the ECA's audit activities.

Over the last two years, the *ECALab* has developed capabilities in a range of data analytics techniques and applied them to some audits. Such techniques include text analysis, data visualisation, blockchain, webscraping, sentiment analysis, network analysis, use of public data and more.



WHAT WE ARE LOOKING FOR

Essential requirements:

- ✔ Strong academic qualification(s) in a numerate subject;
- ✔ Intellectual curiosity and logic, especially using data and evidence to answer questions;
- ✔ Familiarity with software/languages such as 'R', Python, Watson, or equivalent;
- ✔ Excellent written and oral communication skills to understand users' needs and communicate about the tools developed;
- ✔ Good team-working skills and ability to engage confidently with colleagues at all levels;
- ✔ Interest in public policy.

Desirable skills, attributes and experience include:

- ✔ Experience of using data analytics / science techniques to solve problems;
- ✔ Familiarity with quantitative methods and statistical packages (such as SPSS, SAS);
- ✔ Commitment to personal development and keeping technical skills up to date;
- ✔ Experience of working with large datasets;
- ✔ Track record of delivering high-quality work which has had impact;
- ✔ Proactiveness in identifying areas for improvement and generating efficiencies.

Experience of audit is not a prerequisite.

For more information about the role, please contact Gilberto Moggia at gilberto.moggia@eca.europa.eu.



APPLICATION PROCEDURE AND DEADLINE

- ✔ Applications must be sent by e-mail to ECA-STAGE@eca.europa.eu **no later than 4 March 2019**;
- ✔ The e-mail should contain the following subject: **"2019 Pisa"**;
- ✔ Applications must be submitted in **English**;
- ✔ Applications should include the **Europass Curriculum Vitae**¹ (max. 3 pages), and a **certificate issued by the University** with the number of ECTS credits validated;
- ✔ **Two traineeship sessions** are planned for 2019, with the following start dates: 1 May and 1 September; applicants *should indicate their preferred start date* in their application;
- ✔ All applicants will be **notified of the outcome** of their application **by 18 March 2019**.

For more information about the procedure, please send an email to ECA-STAGE@eca.europa.eu.

¹ For information on the Europass Curriculum Vitae, please consult the website: <http://europass.cedefop.europa.eu>

The Court is an equal opportunities employer and takes steps to ensure that recruitment is evenly balanced between men and women, pursuant to Article 23 of the Charter of Fundamental Rights of the European Union and Article 1(d) of the Staff Regulations.

The Court implements measures to reconcile working life with family life.

If you require any special arrangements (for a specific handicap or disability) in order to take part in this selection procedure, please send an e-mail in good time to ECA-STAGE@eca.europa.eu.

DATA PROTECTION

The Court is committed to ensuring that candidates' personal data are processed as required by Appointing Authority Decision No 77-2006 implementing Regulation (EC) No 1725/2018 of the European Parliament and of the Council on the protection of individuals with regard to the processing of personal data in the context of human resources policies.

For more information, see the specific privacy statement for employment vacancies which is available at the following address:

https://www.eca.europa.eu/Lists/ECADocuments/Specific_Privacy_Statement_vacancies/Specific_Privacy_Statement_vacancies_EN.PDF



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