

# tutorrio

Learning program at a glance

# tutorrio

powered by Klarrio

tutorrio is a **data engineering learning space** with a **hands-on intensive program** that meets society's and industry's needs.

It's an **initiative** of **Klarrio** born out of our deep belief that there must be people around who have the capabilities to become a software and data engineer but for whatever reason didn't get the chance.

With this initiative we want to remove all classic obstacles and **offer** people that **possibility independent** of their **background**. Whether you just left high school, university or are already working for some years, if you're sincerely **interested in data engineering and** have the **basic skills**, you're **welcome**.

# Our mission

Offer an “**earn while you learn**” **program** to those who have the intrinsic skills to become proficient **data engineers** but **didn't get the** learning **opportunity**.

Design the **program** that meets society's and industry's need for **skilled data engineers** and goes **beyond** pure **technology**: it builds on our belief in **open-source** while addressing **cloud economics** and **data ethics**.

Prepare students to have all the skills on board to get started as a **member** of the **Klarrio R&D data engineering team on successful completion** of the program.

# The concept

Our **learning program** is designed to build a robust foundation **in software and data engineering** through a unique combination of **on-site courses** instructed by our experts, **self-study, group assignments** and **certified training**.

# The program

is split into two parts: 6 + 3 months

*Part-1:*

## Computer science fundamentals

**6 months**

- GNU/Linux, bash and tools
- Programming101
- Go programming language
- Operating system concepts
- Computer networks: i.e. Ethernet, PPP, IP, TCP, UDP, router, switch, ...
- Relational databases
- Impact of computing

*Part-2:*

## Data engineering

**3 months**

- Containers: Docker
- Container orchestration: Kubernetes
- Cloud-native and hybrid offerings: i.e. AWS, Exoscale, ...
- Event frameworks: i.e. MQTT, Apache Kafka, ...
- Programming languages: i.e. Go, ...
- NoSQL databases, block storage, object storage, ...
- Automated development: CI/CD
- Cloud economics
- Data ethics

*\* It's not possible to only do part-1 or part-2*

# Our conditions

- You are **eligible to work** in the **EU**
- You can **commit to 9 months 5-days/week full-time**
  - **3 days** required presence **in our lab** in Antwerp
  - **2 days** from **home or our lab**, you choose
- You have a **broadband connection** to work @home
- Upon **successful completion** of the program:
  - You are willing to continue to **work for Klarrio** for at least **18 months** or compensate Klarrio as defined in the "*scholingsbeding*" by the Belgian federal government.
  - You will receive **an updated competitive remuneration package** in line with Klarrio's data engineer package.

# What are we looking for

## personal competences

### Operational

**Accuracy** or you'll make all sorts of stupid coding mistakes.

Concern about **quality** (*maintainability, testability, readability, security*) in order to write good code.

A **sense of duty** and honoring of commitments

*Friday 17h service goes down, what do you do?  
There's a data-leak, what do you do?*

**Result orientation**; you set priorities, make decisions and overcome setbacks to achieve a goal.

### Interpersonal

**Ability to convince**: people have different ideas and opinions, from time to time you will have to convince your colleagues with arguments and numbers that something is wrong or one solution is better than another.

**Collaboration**: the scale and complexity of data-engineering problems are such that they require collaboration.

### Personal

**Drive**: you are intrinsically motivated to solve and investigate complex problems

**Stress resistance**: A service goes down and people are blocked. You promised to deliver and just before the official release something goes wrong.

In these moments you need to stay calm and investigate the problem step-by-step.

### Conceptual

**Analytical mind**: ability to research things systematically.

**Helicopter View**: you can keep an overview and regularly take a step back to monitor the full picture

# What are we looking for

technical skills

- Pattern recognition
- Derive functions from mathematical problems
- Learning ability of a new (technical) language
- Interpretation of graphs



# What are we looking for assessments

After registration you will receive **2 links to online assessments:**

1. To assess your **personal competences**
2. To assess your **technical skills**

*\* The default language for all tests is Dutch however you can choose another language in the settings.*

*\*\* You will not automatically get your results after completion of the tests. We will discuss them with you shortly after.*

# Your contract

Upon acceptance of your candidacy, you will be contacted by the **Klarrio HR** department to go over your contract.

To **sign** the **contract** you will be invited to **our offices** in Antwerp, where we will show you around and hand over your laptop and welcome goodies.

Once you successfully complete the program, you'll receive an **updated contract** in line with Klarrio's data engineer remuneration package.

# Your contract **addenda**

## **Training stipulation** (*scholingsbeding*)

The training stipulation is a stipulation according to Belgian law whereby the employee who, during the execution of this employment contract, undergoes specific training at the employer's expense, agrees to reimburse part of the training cost if the employee decides to leave the company before the agreed period.

- The period is determined at **18 months** after completion of the program

**Reimbursements**, should you decide to leave are:

- between 0 - 6 months: 11.000 - 7.500 euro
- between 6 - 12 months: 7.500 - 3.000 euro
- between 12 - 18 months: 3.000 - 0 euro

*\*<https://werk.belgie.be/nl/themas/arbeidsovereenkomsten/uitvoering-van-de-arbeidsovereenkomst/scholingsbeding>*

# Your contract **addenda**

## **Equipment**

tutorrio will provide you with all the equipment required to follow the program. Treat it with respect and return it in the condition in which you received it (except for normal wear).

## Dates to remember

- **Application** period starts: **1st of July** 2023
- We welcome applications till the **end of November** 2023
- **Program** starts: **3rd of January** 2024

**Apply now!**

Go to your website [www.tutorrio.com](http://www.tutorrio.com) and apply **now**

# Location & contact



tutorrio

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**Questions?**

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