

Internship Opportunity in Life Science Engineering

Bioinformatics & Laboratory Automation

Location: Lucerne / Alpnach

Type: Internship (Full-time / Part-time)

Duration: [5–8 months]

Target Audience: Recent Graduates or Master's Students

About us

We are Visienco, a dynamic tech-bio start-up emerging from the Swiss research center CSEM. Our mission is to revolutionize drug development by using organoids as an alternative to animal testing. We are at the forefront of innovation, combining cutting-edge technology with a passion for creating impactful solutions.

Our Orgadroid is helping researchers to image, classify and sort microtissues such as organoids efficiently using AI-based classification methods. Furthermore, it enables our clients to store the imaging data acquired for each tissue. This unique internship offers the opportunity to lead the development of a software feature that lets our clients visualize the results and statistics.

Your role

We are seeking a motivated Intern – Bioinformatics & Laboratory Automation to join our interdisciplinary team. In this role, you will bridge biology, data engineering, and software development by supporting both experimental workflows and computational infrastructure. You will contribute to designing and implementing data pipelines for imaging experiments, while also gaining hands-on experience with laboratory techniques such as pipetting and dataset acquisition.

This internship is ideal for a student or early-career researcher interested in combining laboratory experimentation with software engineering and data visualization to accelerate biological discovery.

Your responsibilities

We are looking for an intern to support us in:

- Design and implement a database schema to store imaging and experiment results.
- Develop a backend service to process, aggregate, and expose imaging data via APIs.
- Build a user-friendly frontend interface to visualize summarized results and key metrics.
- Work closely with biologists and engineers to understand imaging workflows and data requirements.
- Ensure data integrity, scalability, and usability of the software platform.
- Perform imaging and pipetting experiments, acquire datasets.

Your profile

Know-how

Requirements

- Currently pursuing or recently completed a Bachelor's or Master's degree in Computer Science, Software Engineering, Bioinformatics, or related field.
- Strong programming skills in Python
- Familiarity with databases (SQL or NoSQL).
- Understanding of RESTful APIs or GraphQL.
- Ability to quickly learn domain-specific concepts and collaborate across disciplines.
- Experience in planning and executing experiments

Nice-to-have's

- Programming skills in JavaScript/TypeScript, or similar of advantage



- Experience with web frameworks (e.g., React, Next.js, or Angular) and backend frameworks (e.g., FastAPI, Django, Node.js, or Express).
- Experience with data visualization libraries (e.g., D3.js, Plotly, Chart.js).
- Exposure to scientific imaging data or life sciences applications.

Interpersonal skills

- Good communication skills
- Ability to work independently and take initiative.
- Excellent problem-solving skills and attention to detail.

What We Offer

- Hands-on experience building a product in a cutting-edge **tech-bio startup**.
- Mentorship from experienced engineers and scientists.
- A dynamic and interdisciplinary work environment.
- Opportunity to contribute to a real-world tool with direct impact on research and healthcare innovation.

Working@Visienco means

- Being part of a passionate community.
- Having incredible flexibility, attractive working conditions, and great development opportunities.
- Benefiting from a **management style based on trust & feedback**, that **favours a sustainable work-life balance**

