



**Offer #2024-07772**

## **Internship in Web Development – Visualization of a Biological Network**

**Contract type :** Internship agreement

**Level of qualifications required :** Master's or equivalent

**Other valued qualifications :** Web development certification(s)

**Fonction :** Internship Engineering

**Level of experience :** Up to 3 years

### **Context**

About LabSae

LabSae is a start-up backed by INRIA offering a unified computational platform for analyzing protein-protein interaction networks using computational biology and artificial intelligence. Proteins orchestrate a wide range of biological processes in living organisms, making them prime targets for many pharmaceutical interventions. LabSae provides a reliable and accurate large-scale computational analysis of protein-protein interactions that significantly improves our knowledge of proteins and therefore facilitates preclinical in-silico drug design.

### **Assignment**

We require an intuitive and dynamic visual representation of interaction networks based on a database of protein information, including 3D structures and interactions determined experimentally or predicted by machine learning.

### **Main activities**

Develop the front-end and back-end functionalities necessary for visualizing the protein network.

Efficiently manage interaction with SQL databases to retrieve and display data.

Design an attractive, user-friendly, and high-performance website interface.

Collaborate with the project team to ensure seamless integration during solution development.

If time allows, implement a chatbot to enhance the user experience.

### **Skills**

The ideal profile for us

- Proficient in SQL and Python for database interaction.
- Extensive knowledge of web development technologies (HTML, CSS, JavaScript, PHP, etc.).
- Experience with front-end (React.js, Angular, Vue.js, D3.js, Cytoscape.js) and back-end frameworks.
- Preferably, familiarity with bioinformatics.
- Good level of English.

Soft skills

- Autonomy
- Effective communication skills
- Teamwork abilities and collaborative mindset

### **Benefits package**

- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking (after 6 months of employment) and flexible organization of working hours

- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

## General Information

- **Town/city** : Paris
- **Inria Center** : [Centre Inria de Paris](#)
- **Starting date** : 2024-09-01
- **Duration of contract** : 4 months
- **Deadline to apply** : 2024-08-31

## Contacts

- **Inria Team** : INCUB-PRO
- **Recruiter** :  
Mohseni Behbahani Yasser / [yasser.mohseni-behbahani@inria.fr](mailto:yasser.mohseni-behbahani@inria.fr)

## About Inria

Inria is the French national research institute dedicated to digital science and technology. It employs 2,600 people. Its 200 agile project teams, generally run jointly with academic partners, include more than 3,500 scientists and engineers working to meet the challenges of digital technology, often at the interface with other disciplines. The Institute also employs numerous talents in over forty different professions. 900 research support staff contribute to the preparation and development of scientific and entrepreneurial projects that have a worldwide impact.

**Warning** : you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.

## Instruction to apply

### Defence Security :

This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

### Recruitment Policy :

As part of its diversity policy, all Inria positions are accessible to people with disabilities.