

## **Analyse statistique des données omiques fondée sur les graphes : développement et mise en place de la méthodologie.**

For L'Oréal, beauty is above all a scientific adventure. This principle is reflected in the key role played by our Research & Innovation division, which deploys its teams all around the world to dream up and create the products of tomorrow.

But wait, have you heard about our history?

In 1909, Eugène Schueller, a young chemist, formulated the first hair dyes using a blend of harmless chemical compounds. With his entrepreneurial spirit, he sold it to Parisian hairdressers and founded the Société Française des Teintures Inoffensives pour Cheveux.

You never heard of that company? Don't worry, we don't blame you, because you know it under its current name: L'Oréal.

More than a century later, Eugene Schueller's belief that research and innovation form the cornerstone of growth and success has spread to reach more than 3800 R&I employees, and enabled the discovery of over 130 molecules and the development of thousands of formulas and products.

### **Join us to become a L'Oréal Internpreneur!**

- Internship in Scientific Computing
- Flexible starting date between January and July 2021 for 6 months, located in the Paris region (Chevilly and Aulnay Sous Bois)

### **MISSION :**

- Recherches bibliographiques sur les modèles graphiques (non dirigés et dirigés)
- Application d'approches graphiques sur des jeux de données omiques en grande dimension (metabolomiques, microbiome)
- Simulation données microbiome de nature compositionnelle pour l'évaluation de nos indicateurs de performances (alpha, beta diversité, analyse DESeq2) et des performances des approches graphiques
- Implémentation de codes en R pour l'automatisation des analyses

### **Education and Training required:**

- Master 1 or 2 (you must have a « convention de stage ») in one of the following disciplines:

Data science

Data Science applied to Biology

Statistics and Biostatistics

Sensory or Statistic analysis

**Requis** : Bonnes connaissances en mathématiques (statistiques, probabilités...), programmation en R, biologie computationnelle.

**Facultatif** : notion en théorie des graphes, connaissances en sciences du vivant

### The raw materials for the perfect fit

- You speak French or/and English fluently
- You are well known for your incredible dynamism and your hands-on mentality
- Result-oriented: you are not afraid to tackle challenges and solve problems thanks to creative solutions
- You are a true team player, but also capable of working autonomously
- Scientific excellence is your moto – you pay strong attention to details and are always seeking for new ways to innovate!

### Our input to the mixture

- An appealing monthly gratification, ranging from 1250€ (Master1) to 1400€ (Master2)
- Access to a corporate restaurant, a gym and to the L'Oréal staff store to try out all our products
- Unlimited access to a learning platform with more than 4000 trainings for your own development
- Integration to an amazing community of more than 120 interns and 50 apprentices and participation to different networking events
- Personalized HR follow ups to help you develop your skills and improve your performances
- Participation to L'Oréal's Innovation Games: a scientific business case competition, where you'll be able to disrupt the future of beauty
- The possibility to sharpen your entrepreneurial spirit
- The ability to bring out-of-the-box ideas to the table!

Postulez ici :

[https://careers.loreal.com/fr\\_FR/jobs/JobDetail/FR-R-I-Stage-en-Calcul-Scientifique-2021-H-F/90550](https://careers.loreal.com/fr_FR/jobs/JobDetail/FR-R-I-Stage-en-Calcul-Scientifique-2021-H-F/90550)