Reduce variability of the Conjugated Antibody process by implementing Machine Learning Algorithms

During your internship within Beckman Coulter Life Science (BEC LS), you will join the Innovation Operational Team to take part in major projects we will deliver in 2022.

The Innovation Team is mainly focused on the Industry & Lab of the future in order to improve performance and quality as well as reduce our environmental footprint. This is a small team created in January 2020 with growth and recruitment opportunities for our interns. We focus on :

- AI / Operational Research Algorithms,
- Digitalization Projects,
- Automation / Robotization of our laboratories and manufacturing processes,
- Additive Manufacturing
- Lean and continuous improvement

We support Operations - Cell Culture, Biochemistry, Filling & Packaging, Planning & Scheduling, Logistics & Distribution, Engineering, Technical Services – for our Marseille site, France. This site is focused on Antibody Production & Biochemistry for both Immunoassay and Flow cytometry Reagents development and manufacturing. Typical Application is Cancer Leukemia & Lymphoma diagnostic. In 2020, our R&D teams developed Serology tests for COVID 19.

INTERNSHIP :

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The objective is to imagine and develop an algorithm that would replace human interpretation within our manufacturing process.

- You will first get familiarized with our manufacturing process in order to formalize the problem we face.
- Then, you will identify solutions to resolve our problem and select the one you find the most relevant
- You will collect and prepare data, then train the model and validate its performances.
- Finally, you will work on its implementation within our manufacturing process.

We are looking for a student from Top Engineering Schools and Universities. You are specialized in Biochemistry with extensive knowledge in Applied Mathematics, Machine Learning. You are motivated to join the Healthcare and LifeScience Industry. Ideally, you already have experience in this Industry. You are proactive and ready to do things by yourself.

The internship can be extended from 3 to 6 months depending on the time allocated by your University.

Who we are ?

Danaher is a global science and technology innovator committed to helping clients overcome complex challenges and improve their quality of life around the world! Our diverse team of 67,000 people worldwide is united by a culture and a mindset of continuous improvement.

Danaher Corporation and all Danaher Companies are equal opportunity employers that evaluate qualified applicants without regard to race, color, national origin, religion, sex, age, marital status, disability, veteran status, sexual orientation, gender identity, or other characteristics protected by law.

Danaher | Global science & technology innovator

Beckman Coulter Life Sciences is one of Danaher's operating company.
https://www.beckman.com

At Beckman Coulter, we are dedicated to advancing and optimizing the laboratory. For more than 80 years, we have been a trusted partner for laboratory professionals, helping to advance scientific research and patient care. We have a vital role: our focus on innovation, reliability and efficiency has led us to become the partner of choice for clinical, research and industrial customers around the globe.

In the life sciences, researchers use Beckman Coulter's precision instruments to study complex biological problems, including causes of disease and potential new treatments. Our team of experts dedicates the time and energy to understand the complexity of research for laboratory customers in a wide variety of settings: universities, government, biotechnology and pharmaceutical companies, hospitals, and commercial laboratories. By innovating new processes and technologies, we're challenging conventional wisdom to develop the best, most widely trusted laboratory solutions available in the market today.

Application : Send your resume to Guillaume Pitollat, Innovatin manager – GT Alumni - GPITOLLAT@beckman.com and Cc jfritsch@georgiatech-metz.fr