



Industrial Post-doctoral Fellow in microbiology/immunology

Job to fill: 1

Place of work:

Maxivet Inc.

7755, Duplessis, suite 200

St-Hyacinthe (Québec)

J2R 1S5

Project description

The *Campylobacter* bacterium, especially *C. jejuni*, is one of the most common bacterial causes of diarrheal illness in human worldwide. This genus is found in several food matrices including poultry meat, red meat, eggs, dairy products and plants. There is an increasing demand for testing for *Campylobacter* in food to ensure a better control of food safety and thus to reduce the risks of campylobacteriosis. Furthermore, the *Campylobacter* spp detection should be done with a high degree of sensitivity. The existing standard culture methods are time-consuming and are not adapted to the industry needs. So, it is important to develop an easy and rapid test to be used by all participants in the food chain. Thus, we propose to use a new technology which joins the traditional immunological processes and the magnetism for developing an easy-to-use rapid test capable to detect *Campylobacter* spp. in food. This new test can be a solution for the food safety and a new convenient tool for the industry.

Job description

The principal mandate will be to develop a qualitative rapid detection test for *Campylobacter* spp. in the poultry and other food of animal origin using a new technology. The candidate will then have the role of setting up the project from a complete literature review on the subject. Moreover, he will collaborate with other staff members to adapt this new technology to the specific detection of *Campylobacter*. The candidate will also collaborate to select of the specialized laboratory equipment required for the project. Finally, the candidate will have to carry out research according to various governmental authorities in order to reach accreditation level for the newly developed method.



Requirements and working conditions

To be autonomous.

Assets: knowledge of the Campylobacter bacterium.

To have completed a Ph.D within the last 5 years in microbiology, biochemistry, or any other scientifically relevant.

Be a Canadian citizen or permanent resident of Canada.

Be an eligible candidate for an industrial post-doctorate grant from the CRSNG.

Years of experience related to employment: 1 to 2 years.

Languages requested: French and English

Salary: to be discussed.

Hours per week: 35,00

Status of employment: contractual, 1-2 years

Start of employment: as soon as possible.

Communication

Person to contact: David Claveau (Research assistant)

Email: dclaveau@vetco.ca