

## PhD POSITION in Plasma activated water and mist characterization and stability of reactive species

### Summary

We are looking for a PhD student to join our research group, in the interdisciplinary research area "*Plasma activated water and mist characterization and stability of reactive species*".

The successful candidate will conduct research at University of Alberta in following areas:

- Plasma activated water and mist characterization
- Plasma reactive species stability and their interaction with biofilms and food/biomaterials

### Candidate profile

The position requires a student with interdisciplinary experience in engineering and microbial analysis. The candidate will work with a multidisciplinary research team including graduate students and industry partners.

### Preferred qualifications:

- Masters in Food Process Engineering, Biological and Agricultural Engineering or Food Microbiology or related areas;
- Demonstrated record of research productivity
- Ability to work independently and collaboratively in interdisciplinary research project

**To Apply:** Please e-mail your detailed academic CV, contact information of three references, unofficial transcripts, a cover letter to [roopeshms@ualberta.ca](mailto:roopeshms@ualberta.ca):

### Dr. M. S. Roopesh

Department of Agricultural, food and nutritional science  
University of Alberta

**Email:** [roopeshms@ualberta.ca](mailto:roopeshms@ualberta.ca)

**Research group website:** <https://foodsafetyengineering.ualberta.ca/>

Preferred starting date: May 1, 2022

**We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.**

*The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.*

## **POSTDOCTORAL POSITION IN *Salmonella* biofilm reduction and water treatment by novel technologies**

### **Summary**

We are looking for a post-doctoral fellow to join our research group, in the interdisciplinary project “*Salmonella* biofilm reduction and water treatment by novel atmospheric cold plasma (ACP) and light emitting diode (LED) technologies”.

The successful candidate will conduct research with research groups at University of Alberta and Agriculture and Agri-food Canada in following areas:

- Reduction of multispecies *Salmonella* biofilms and water treatment by light pulses emitted from LEDs, plasma activated water, and plasma activated water mist
- Plasma reactive species interaction with biofilms
- Continuous process design

### **Candidate profile**

The position requires a researcher with experience in ACP characterization, engineering design and development of ACP systems and microbial biofilm analysis. The candidate will work with a multidisciplinary research team including graduate students and industry partners.

### **Preferred qualifications:**

- PhD in food process engineering, chemical engineering, or food microbiology or related areas
- Experience in ACP technology research in food processing
- Experience in plasma analysis and characterization
- Strong engineering skills
- Demonstrated record of research productivity
- Ability to work independently and collaboratively in interdisciplinary research project

**To Apply:** Please e-mail your detailed academic CV, unofficial transcripts, contact information of three references, at least 1 copy of journal publications related to the research area, a cover letter showing that your research fits with the described research areas to [roopeshms@ualberta.ca](mailto:roopeshms@ualberta.ca).

Dr. M. S. Roopesh

Department of Agricultural, food and nutritional science

University of Alberta

**Email:** [roopeshms@ualberta.ca](mailto:roopeshms@ualberta.ca)

**Research group website:** <https://foodsafetyengineering.ualberta.ca/>

Closing date: The position is open until filled. This position will be supported for one year with the potential to renew for a second year based on performance and funding.

**We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.**

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