



## PHD AND POSTDOCTORAL POSITIONS AVAILABLE

**Job Title(s):** PhD and Postdoctoral Fellow in Ruminant Nutrition, Ruminant Physiology, Microbiology and Molecular Biology

**Job Description:** Dr. Michael Steele's lab is currently seeking passionate, bright, and highly motivated individuals interested in pursuing PhD studies or postdoctoral fellowships in ruminant nutrition, ruminant physiology, microbiology and molecular biology. Applicants are being recruited to work on one of the three following projects, depending on their qualifications/interests:

- 1. Colostrogenesis and effects of colostrum bioactives on calf physiology and development: Elucidation of how specific colostrum bioactive compounds (ie. fatty acids, oligosaccharides) are synthesized in the bovine mammary gland during colostrogenesis and how these bioactive compounds may influence calf physiology, development, and gut microbiota composition.
- 2. Microbial perturbations during the transition period: Investigation of how probiotic supplementation during key transition periods in the calf and cow's life cycles (ie. weaning and transition to lactation) impact the host's gut physiology and microbiota.
- 3. Strategies to optimize the management of crossbred dairy calves for beef production:

  Determining how early life nutrition (colostrum, milk) impacts the long-term development,
  physiology, and productivity of crossbred calves in comparison to their purebred counterparts.

**Requirements:** Applicants must have prior knowledge related to dairy calf and/or cow nutrition, physiology, and management, as well as the following attributes:

- MSc or PhD degree in animal science, animal nutrition, microbiology, molecular biology, or physiology
- Ability and desire to lead intensive animal research projects
- Work cohesively with a team of highly motivated individuals
- Ability to routinely communicate with academic, government, and industry partners in an effective and professional manner
- Previous knowledge related to microbiology and mathematical modeling is an asset, but not required to apply
- For postdoctoral fellow only: ability to manage a team of graduate students and oversee multiple animal experiments simultaneously

To apply: Email curriculum vitae, transcripts, and a cover letter detailing career interests to:

Dr. Michael Steele, Professor Department of Animal Biosciences masteele@uoguelph.ca