



**Nova Scotia Agricultural College
Graduate Student (M.Sc.) Research Opportunity**

Supervision: Dr. B. Prithiviraj, Department of Environmental Sciences
Dr. B. Rathgeber, Agriculture and Agri-Food Canada, Kentville

Location: Nova Scotia Agricultural College (NSAC), Truro, Nova Scotia

Position: M.Sc.

Project: The use of natural products as anti-infective agents in commercial live-stock production is a relatively new area of research, one that has arisen in response to rising concerns for bacterial resistance to antibiotics and an increasing consumer concern for animal drug residues in meat and animal products. Marine macroalgae are a rich source of bioactive compounds including antimicrobial and anti-infective compounds. The successful candidate will investigate the antimicrobial and anti-infective properties of select species of red algae against *Salmonella enteritidis* using the nematode *Caenorhabditis elegans* infection model. The most promising products will be tested for the potential to reduce *Salmonella enteritidis* in layer hens. This is part of a large collaborative effort between NSAC, Acadian Seaplants Limited and Agriculture and AgriFood Canada - Kentville.

Start Date: Potential start date May 2010.

Eligibility: A B.Sc. honours degree (or equivalent) in Agriculture / Biology with Major in Animal Science/ Food Science/ Microbiology, and eligibility to enroll in the M.Sc. program at NSAC (admission requirements available on the NSAC web site at <http://www.nsac.ca/research/graduatestudies/>).

Stipend: \$16,500 per year for two years.

For information on this research project contact: Dr. B. Prithiviraj, Department of Environmental Sciences, NSAC, Box 550, Truro, Nova Scotia, B2N 5E3, Canada (E-mail: bprithiviraj@nsac.ca; Phone: (902) 893-6643; Fax: (902) 893-1404. <http://www.nsac.ca/microbelab/>

For graduate program information or to apply: Contact Marie Law, Research & Graduate Studies Office, NSAC (E-mail: mlaw@nsac.ca; Phone: (902) 893-6502; Fax: (902) 893-3430)