The Faculty of Agriculture, Dalhousie University campus is located in Truro, NS. Offering technical, undergraduate and graduate programs in agriculture, environment and related life and social science disciplines, the Faculty of Agriculture educates future leaders and generates knowledge and innovative solutions for healthy, sustainable societies. This position will located in the Engineering Department of the Faculty of Agriculture Truro Nova Scotia.

The Department of Engineering in the Faculty of Agriculture invites applications from qualified candidates for a tenure stream faculty position in Mechanized Systems at either the Assistant or Associate Professor level, depending on the candidate. The successful candidate will be responsible for developing a nationally recognized research program in one or more areas of machine systems and automation engineering such as agricultural machine systems, precision agriculture, data management, automation of agricultural operations, and data-driven decision analysis for complex agricultural and biological systems. They will attract external funding for research, including national granting council funding, and publish in peer-reviewed journals and other respected venues. The incumbent will provide classroom and laboratory instruction in the technical, undergraduate, and graduate programs of the Faculty, and supervise undergraduate and graduate students in their thesis work. They will become an active and engaged member of the Faculty, working collegially on projects and committees to promote continuous improvement in research, teaching and learning at Dalhousie. The successful candidate will provide academic advising and career counseling for engineering and science students and provide leadership to the profession through provincial and national professional society participation. In addition, departmental, college, and university committee service will be expected.

The candidate must have a PhD in Mechanical or Agricultural Engineering or a related field. It is desirable to have experience in developing and implementing technologies for Mechanized Systems in the agriculture industry. The selected candidate must be eligible for licensure as a registered professional engineer with the Association of Professional Engineers of Nova Scotia. Documented evidence of individual and/or collaborative research and teaching in machine systems and automation of agricultural operations, and related topics resulting in peer-reviewed publications is required. Candidates should be able to demonstrate the ability to work cooperatively with colleagues across disciplines and develop a collaborative research program. The successful candidate must possess excellent writing and interpersonal skills to effectively interact with diverse audiences. Expertise is required in at least three of the following: (i) computer programming and electronics application in agriculture, (ii) mechanized solutions, (iii) development of real-time sensing and control systems, and (iv) application of sensor and control systems for mechanized equipment. The candidate should also have demonstrated potential or excellence in conducting research and technology transfer, the ability to supervise graduate student research, excellent communication skills, and an ability to work in co-operation with a number of university, industry and producer groups. Practical experience in agricultural machinery operations and maintenance with a hands-on approach are desirable for the position.

The salary is defined by the DFA Collective Agreement, depending on qualifications and experience. Applications must include a completed Self-Identification Questionnaire, which is available at www.dal.ca/becounted/selfid".

Applicants should submit a cover letter stating qualifications and experience, a curriculum vitae, teaching dossier and detailed research plan with references available upon request. The completed applications should be sent before December 3, 2017 to: Peter Havard, (Search Committee Chair). Dalhousie University Faculty of Agriculture, Banting Building, PO Box 550, Truro, NS B2N 5E3 phavard@dal.ca The position is anticipated to start July 2 2018.