



Population estimate and habitat characterization of the Northern Barrens Tiger Beetle (*Cicindela patruela* Dejean) from Île-aux-Allumettes (Quebec)

A MSc position is available under the co-supervision of Dr. Clint Kelly (Université du Québec à Montréal, www.kellylab.weebly.com), Dr. Maxim Larrivée (Insectarium de Montréal), and Dr. Michel Saint-Germain (Insectarium de Montréal) beginning September 2018.

The Northern Barrens Tiger Beetle is extremely rare in Canada and is considered endangered nationally. It is associated with old dune systems and is found in highly specialized habitat that tends to disappear in the absence of natural disturbances. The population from Île-aux-Allumettes was rediscovered in 2016 and is one of two known populations in Canada. The actual extent of this population is not known, as is how individuals use the different micro-habitats that make up this relatively diverse area in terms of successional stages. This research project aims to better define the extent of this Northern Barrens Tiger Beetle population and to identify its micro-habitat preferences and requirements. The project could include, among other things, a characterization of the conditions sought for egg-laying, foraging and thermoregulating. The final objectives of the project will be agreed on with the chosen candidate. The project will include field work during the summer of 2019.

This project will be conducted under the auspices of ReNewZoo (www.renewzoo.ca) and aims to train students for future employment in zoo conservation science. Students will be paid a stipend of \$17,500 for each of two years. ReNewZoo has mandatory components (see details at www.renewzoo.ca) in addition to those of the Département des Sciences biologiques (UQAM) including a 4-month internship at Insectarium de Montréal and coursework.

The candidate must have completed a B.Sc. degree in Biology or a related discipline, have an interest in field work and work in zoological institutions. Interested candidates should submit a brief letter of intent, a curriculum vitae and an unofficial transcript to contacts below. UQAM is a linguistically open environment, however, graduate-level classes are taught in French.

The Kelly Lab is a member of the Groupe de recherche en écologie comportementale et animale (GRECA), which is a part of the large, research-active Département des Sciences Biologiques at UQAM (<https://bio.uqam.ca>) in the heart of Montréal.

If interested, please send a letter of intent, academic transcripts and a CV to Clint Kelly (kelly.clint@uqam.ca) and Maxim Larrivée (maxim.larrivee@ville.montreal.qc.ca).