

# Simon Bird

## Burlington, Vermont

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### Professional Statement

To work in scientific roles that support decision makers and stakeholders in the use of innovative solutions that reduce resource impacts and carbon emissions while increasing ecosystem protections. To seek sustainable methods to holistically improve communities at all levels; including the natural, human and social capital. To have fun and find immense value in what I do.

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### Professional Experience

**Director of Forest Science.** Wildlife Works Carbon. June 2017– Present. (*Carbon Development associate November 2011 – June 2017*)

- Provide technical support in the development and management of REDD+ forest carbon projects under the Verified Carbon Standard (VCS) and Community, Climate and Biodiversity standard (CCB).
- Manage measuring, monitoring and verification process of REDD+ projects under VCS and CCB standards.
- Develop and revise forest and soil inventory sampling methods for use in international REDD+ projects that meet all applicable standards for use in broad ecosystems throughout the tropics.
- Create and parameterize forest models for the estimation of the forest carbon stock of REDD+ carbon projects.
- Manage stakeholder and community outreach and engagement to ensure full and transparent communication of project impacts and benefits.
- Produce project documentation and reports for standards and verification bodies.
- Project management for REDD+ project validations, verifications and methodology revisions under VCS and CCB standards.
- Manage diverse teams across geographic and cultural boundaries.
- Train multi-cultural groups in technical forest measurement technics.
- Write budgets and implementation plans for REDD+ project development.

**Chief Environmental Accountant.** AgRefresh, LLC. February 2009 – July 2011.  
(*Environmental Accountant 2009-10, Senior Environmental Accountant 2010-11*)

- Environmental accounting for projects in natural systems, including carbon accounting in biomass and soil.
- Provided technical support to AgRefresh's Forest Solutions and Agricultural Solutions departments with carbon and life cycle accounting and standards.
- Development of three US forest carbon under the Climate Action Reserve
- Member of the Climate Action Reserve working group on the development of a nutrient management carbon offset protocol.
- Developed and implemented Life Cycle Analysis tools for agricultural and biomass production.
- Lead Environmental and Energy analysis for the Regulatory Impact Analysis of the bioenergy sections of the 2008 Farm Bill.

**Master's Student, Research Assistant & Project Manager.** University of Vermont (UVM). 2005-2008.

- Designed and maintained research projects at University's Constructed Wetland Research Center.
  - Developed and tested alternative wastewater treatment technologies, specifically focusing on phosphorous removal.
  - Master's research project focused on the development of a filter for removal of phosphorous from dairy farm wastewater and the mechanisms involved.
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### Education

- 2009** University of Vermont, Department of Plant and Soil Sciences, College of Agriculture and Life Sciences, Burlington, VT
- Master of Science, Soil Science.
  - Thesis Title: Investigations of Electric Arc Furnace Slag Filters: Phosphorus Treatment Performance, Removal Mechanisms and Material Reuse.
- 2003** University of Vermont, School of Natural Resources, Burlington, VT
- Bachelor of Science, Environmental Science: Concentration in Ecological Design.
- 2001** School for International Training (SIT), Arusha, Tanzania. September-December
- Semester study abroad program focusing on Wildlife Ecology and Conservation.
  - Independent Study Project: Bicycling, a sustainable answer to immobility: An examination of the effects of immobility on seven women's and youth groups selected to participate in a poverty alleviation project.
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### Publications

#### Peer Reviewed

**Bird, S.C.**, Drizo, A., and Druschel, G. (*In Preparation*) Investigations of the Phosphorous Retention Mechanisms in EAF Steel Slag Filters Treating Dairy Farm Effluent: Voltammetric Analysis and Geochemical Modeling. *Water Research*

**Bird, S.C.**, Drizo, A. (2010) EAF Steel Slag Filters for Phosphorus Removal from Milk Parlor Effluent: The Effects of Solids Loading, Alternate Feeding Regimes and In-Series Design. *Water* **2** (3) 484-499

**Bird, S.C.**, Drizo, A. (2009) Investigations on Phosphorus Recovery and Reuse as Soil Amendment from Electric Arc Furnace Slag Filters. *Journal of Environmental Science and Health, Part A* **44** 1476-1483