



January 2011

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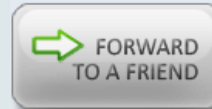


Here are some of the jobs posted this month:

terrachoice **Client Service Coordinator**
Ottawa, ON
Deadline: Friday, February 04, 2011

Rescan **Fish Biologist: Intermediate**
Vancouver, BC
Deadline: Friday, February 04, 2011

TRITON **Senior/Intermediate Biologist**
Calgary, AB
Deadline: Friday, February 04, 2011



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Professional New Year's Resolutions

Welcome back. As 2011 begins, many professionals may be considering professional development as one of their New Year's resolutions. For some, this will mean trying something new to advance their skills or improve credibility, while for others it could lead to a new career altogether.

No matter what stage you're at in your professional life, there is always room to change and grow. For the January edition of the *Job and Industry News*, we've dedicated our content to setting you on the right path for the New Year.

Stay up-to-date with [what environmental technologies are happening in 2011](#), become acquainted with [GOWen ENVIRONMENTAL partnership workshops](#), and read about [Environmental Professional, David Reynolds](#).

We hope you have an excellent year. Enjoy!

Chantel Sciore
Professional Services
ECO Canada



Share your story!

Has ECO Canada helped you grow your career? We want to hear about it!

Your story may be featured in a future newsletter or on the ECO Canada website. [Click here to share your story.](#)

ECO in the news

[Green Job Seekers Need to be Savvy About Soft Skills](#)
Suite101

[What is an Environmental Professional \(EP\)?](#)
Chem Smart Resources



To

Link or not to Link

We invite you to join us in the conversations, share your ideas and news and become an active part of our online



communities. If you're not that familiar with LinkedIn, it is the business network for professionals and a visual representation of your business network's reach, and a place to express your business capabilities. Are you ready to participate in this ever growing network of over 80 million members?

Follow us and start connecting with employers and other professionals!

We have recently launched an [ECO Canada company page](#) on LinkedIn and invite you to "follow" our organization to keep up to date on all our exciting programs coming out this year. To kick start our page, we're reaching out to you to recommend one of our products and services that you are familiar with.

Environmental Inventions & Technologies in 2011

The environmental sector is ever-changing, and with the New Year comes several innovative environmental technologies that are either in their pilot stages, or will be introduced to the industry during 2011. To help you stay up-to-date with what modern technologies can be expected this year, ECO Canada has compiled a list of some remarkable inventions coming to Canada and abroad.



Flying Cars from MIT

In late 2011, MIT plans to deliver the first flying car developed by the Department of Aeronautics and Astronautics. The 115 mph "Transition" was tested in 2010 and flew for 37 seconds. MIT students have created a company called Terrafugia, and are currently working to extend the flight duration. Terrafugia has begun taking deposits from early adopters wanting to purchase the Transition. To fly the car, consumers must have a license, which will be awarded after 20 hours of flying lessons.

New Biodiesel Manufacturing Facility in Toronto

During the spring of 2011, Energy Innovation Corp is opening Toronto's first biodiesel manufacturing facility. The facility will meet the demand of the new Government of Canada regulation, which requires diesel fuel and heating oil to contain an average of 2% of biodiesel. Capable of producing over 10 million litres of biodiesel per year, the facility will help to decrease greenhouse gas emissions. The biodiesel is created from Ontario-grown flax seeds and locally collected, used coffee grounds.

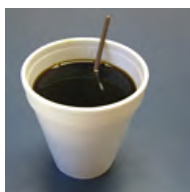
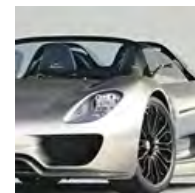


Heat Recovery System in Quebec Paper Mill

Announced at the end of 2010, Kruger Products' pulp and paper mill in Quebec is now the home of an innovative heat recovery system intended to lower the mill's greenhouse gas emissions by 10,000 tonnes a year, the equivalent of removing 2,500 cars from the road or planting 1.3 million trees. The system works by capturing hot air from two of the mill's three paper machines and reusing it to heat the water in the mill.

Porsche Hybrid Cars

To comply with the European Union's new emission regulations, Porsche will be redesigning many of its sport cars into hybrid models. The car company launched a hybrid version of the Cayenne SUV in 2010 and plans to release the Panamera sedan in 2011.

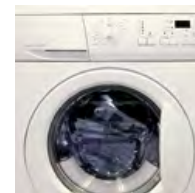


Styrofoam Recycling Technology in Edmonton

Edmonton will have much less Styrofoam waste in 2011. Polycore, a company that builds foundations and walls from Styrofoam, has adopted a new industrial technology from Japan called the "Electrothermal Densifier." The technology chops and melts down Styrofoam and processes it to make plastic products.

Xeros Waterless Washing Machine

In an attempt to conserve water, a British firm called Xeros Ltd. is developing a washing machine that is 90% waterless. Scheduled to launch commercially in 2011, the machine works by employing reusable nylon beads that absorb stains, and only requires a minimum amount of water to operate.



Growing Bioenergy in British Columbia

A Vancouver Island-based pulp and paper mill will be adopting a technology called MicroSludge® in 2011. MicroSludge®, developed by Paradigm Environmental Technologies, is already being used in municipal wastewater treatment plants, but is making an innovative jump to pulp and paper mills to create more environmentally friendly paper at a lower cost. The technology works by enhancing the anaerobic digestion process, thereby reducing operating costs and increasing plant capacity.

Swedish Underwater Kite



A Swedish company called Minesto will be generating energy off the coast of Northern Ireland with the launch of an underwater turbine kite called "Deep Green" in 2011. Seawater is 800 times denser than air, and as a result, the kite will be able to generate up to 500 kilowatts of power.



EP Profile of the Month

Dr. David Reynolds, PhD, MBA, PGeo, EP

ECO Canada is pleased to profile [Dr. David Reynolds](#), one of the first EPs to become specialized as an Environmental Manager. With a career that has spanned the last 40 years, David has held positions in a variety of environmental manager capacities and has notably completed a PhD, MBA, MSc, and BSc.

David began his career in the environmental sector as a National Park Warden, an appointment that fulfilled a lifelong dream. In the following interview, David candidly shares why he is dedicated to the elevation of the environmental profession and comments on some of the highlights of his career.



You have recently moved to Clifton Associates Ltd. What is your new position?

My new position is Director, Environmental and Regulatory Affairs. [Clifton Associates Ltd.](#) offered me the opportunity and challenge to grow its environmental practice to embrace a broader spectrum of the "environment" and to help clients contend with the ever-changing federal and provincial regulatory requirements. I am able to apply my many talents and people skills to various projects, from conducting biophysical and climate change assessments to site reclamation and regulatory approvals.

What are your favourite things about your past jobs and/or present job?

Apart from the feeling that I am making a difference in people's lives and making a contribution to environmental management in Canada, I think the one thing that constantly hits home with me is the great people who I have worked with in the environmental sector. My past and present colleagues are not just my coworkers and clients, they are also my friends. These friends are among the most committed and knowledgeable environmental professionals trained in biology, ecology, geology, geography, climatology, and different aspects of engineering. The [environmental sector is multi-disciplinary](#), attracting professionals and technologists from so many corners of the workforce.

Why did you get certified as an Environmental Manager and what value does the EP designation add to your career?

I have been engaged in the quest for certification of environmental professionals for a long time. [Being an environmental professional](#) is no different than being a professional engineer, geologist, agrologist, chemist or biologist. It only makes sense to me that environmental professionals have an organization to represent their interests and to establish standards of practice and conduct in the same way as, for example, APEGGA or the Alberta Institute of Agrologists (AIA) do for their members.

“ ...I believe it is important for a professional to have some form of certification or registration to highlight capability and competence. ”

I became an EP as I believe it is important for a professional to have some form of certification or registration to highlight capability and competence. I have spent all but a few years of my career as an environmental program manager and have honed my skills in the field and as a manager of teams of professionals. The skill set for an environmental manager is only different from an environment professional by virtue that the manager manages the work of other environmental professionals. An [environmental manager](#) is like the conductor of an orchestra and needs to be recognized for the value they bring to a team. The success or failure of a team rests on his/her shoulders and it is not a role for the faint of heart or for people with limited people skills.

What are some of the challenges you have faced in your career and what has helped you overcome them?

One major challenge in my career has been gaining the respect of my peers in other professions, namely engineering. Because environmental professionals have not been organized like engineers, geologists, agrologists, biologists, planners or chemists, etc. it has been hard to establish a level of credibility and the confidence as a peer-professional. ECO Canada is helping to overcome that sense of inferiority. For many years, I found myself declaring time and again that I am an "environmental professional" and not an "environmentalist" (anyone can be an environmentalist). Today, I can honestly say that I have been accepted by my peers.

Looking back, what would you say has been the most important lesson that you have learned and would pass onto aspiring environmental professionals?

Important changes in life and on the job take a long time to come to fruition. Be patient because the system works slowly. If I can encourage people at all, it is to suggest that the greatest changes to the way the global environment is managed are yet to come! Secondly, the environmental sector may seem like a large sector, but it is a small and close-knit family. My advice is to make friends not enemies of your coworkers and people in your network. Nurture that friendship and working relationship-it may pay dividends in the future. Also, find someone to be your mentor.

Last but not least . . . you are an environmental professional. Do not let anyone try to belittle or discredit you or your profession. Keep your chin up. Be proud of who you are and the work you do. After all, you are a professional.

[Click here to read the full interview with David Reynolds](#)



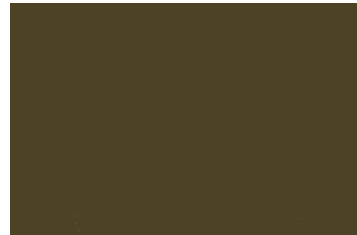
Cleaning Up the Mess

The Canadian contaminated sites sector has grown quickly over the past few years, driven by a combination of regulatory and economic pressures. In 2008, [ECO Canada's Contaminated Sites Report](#) - *When Supply Does Not Meet Demand* - affirmed that between 2004 and 2019, the federal government would commit up to \$4 billion to clean up properties that it owns or that fall under federal responsibility. This includes more than 4,400 federal contaminated sites as well as 28,000 non-federal properties.

In conjunction with high profile cases such as the BP oil spill, these industry-wide changes have led to heightened awareness on issues relating to contaminated sites, encouraging countries around the world to develop and implement stricter guidelines and standards for the investigation, mitigation and remediation of contaminated sites. However, like most environmental work, the skills needed to clean up these sites are multidisciplinary and require a unique set of cross-sectoral competencies from employees.

There are a number of environmental training facilities currently operating in Canada, but GOWen ENVIRONMENTAL is the only facility in the world that offers a one week indoor-outdoor course covering all issues related to managing subsurface contamination, from theory to practice. The fifteen instructors leading the course come from all across North America with backgrounds in academia, private industry and government, and are recognized as leading experts and educators in their respective fields.

The course is a joint project between GOWen ENVIRONMENTAL, the Association for Environmental Health and Sciences and the International Association of Hydrogeologists and was founded to provide leading-edge environmental training and networking through courses, conferences and workshops. This year will mark the 16th anniversary of its [annual contaminated and hazardous waste site management course](#), a comprehensive course that provides a solid theoretical and practical foundation in contaminated site management. The course integrates several different disciplines and has been developed specifically for individuals who manage, regulate, investigate, remediate or are impacted by contaminated sites.



Industry News

[US Senate approves diesel emissions legislation](#)

The U.S. Diesel Emissions Reduction Act (DERA) now just needs President Barack Obama's signature for the bipartisan legislation to be reauthorized for five more years as the U.S. House of Representatives recently approved DERA by a voice vote.

[Peter Kent's green agenda: Clean up oil sands' dirty reputation](#)

The oil sands have a new defender: freshly minted Environment Minister Peter Kent, who calls Canada's tarry resource an "ethical" source of energy that should take priority in the U.S over foreign producers with poor democratic track records.

[Input sought on BC forestry offset rules](#)

The British Columbia (B.C.) government is seeking public input on its proposed requirements for forest-based carbon offset projects.

[Canadian Waste Management Statistics Show Recycling on the Rise](#)

According to Statistics Canada, between 2006 and 2008, the quantity of waste sent for disposal increased in three provinces: Manitoba, Saskatchewan and Alberta.

Featured Events

[Sustainable Communities Conference and Trade Show](#)

February 08, 2011 - Victoria BC

[Leadership in Energy & Environmental Design \(LEED\) Certification Training Program](#)

February 07-09, 2011 - Ottawa ON

[2nd Annual Canadian Waste Management](#)

February 09, 2011 - Toronto ON

[From Climate Change to Clean Energy](#)

February 09, 2011 - Calgary AB

[Environmental Business 2011](#)

February 15-17, 2011 - Edmonton AB

MEIA Remediation & Prevention Conference

February 16, 2011 - Winnipeg MB

Special presentation from ECO Canada Vice-President Michael Kerford on Aboriginal training opportunities

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