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**IC-IMPACTS SHORT TERM PROJECT**

**Project Title:** Water Knowledge for Thondebhavi, India: Designing Educational Modules for Kindergarten to Grade 7

**Project Supervisor:** Dr. Pierre Bérubé, Professor, University of British Columbia

**Project Deliverables:** Grade K-3 and Grade 4-7 basic curriculum unit, children's water safety action plan, and all learning materials (written and graphic)

**Deliverable Due Date:** Deliverables due December 15, 2016

**Project Fee:** \$7,500 Cdn

**Applications due:** October 25, 2016

**Project Overview:**

IC-IMPACTS is seeking to develop educational modules and supporting learning materials for a small, rural elementary school in Thondebhavi, India. In this resource challenged community, most of the domestic water originates from shallow wells. Reverse Osmosis is used to treat some of the water, but most of the water, including the water used at the local school, is not treated. A new water treatment technology is being deployed to improve water quality within the school. As part of the installation, we wish to produce educational modules for the teachers and students that combine awareness building on the relationship between clean water and health and also inspires action by the children to keep their water clean. The modules will consist of a combination of teacher notes, visual materials, hands-on-learning elements, and knowledge sharing.

Specific learning topics to be covered are to include:

- Understanding of water supply systems and the risks and dangers of contaminated water
- Awareness of water borne diseases and links between water quality, sanitation, hygiene and health
- Knowledge about the quality of local drinking sources and changes to that quality due to seasonal changes and human activities including monsoons, animal waste and agricultural pesticides
- Water treatment and water storage practices to ensure safe drinking water
- Simple strategies to keep healthy and prevent disease

The project requires the development of a creative combination of tools and materials to assist child learning. Potential materials *might* include elements such as:

- informative teacher materials
- posters
- comics or story boards
- hands-on experiential learning components
- science experiments such as testing water and graphing results
- creating water quality and water use maps



**Expertise Sought:**

We are looking for a dynamic, creative and experienced communicator of scientific content for young audiences. The successful candidate must possess exceptional written communication and graphic presentation skills. While Dr. Pierre Bérubé will serve as the supervising scientific expert providing specific content to be incorporated into the learning material, some background in water quality, water treatment or health related impacts of water borne disease is preferred. Ideally the candidate will be pursuing or have completed a degree in a relevant discipline.

*Please note:* This is a contract position and does not require physical presence at IC-IMPACTS central office to fulfill the contract. The applicant may choose to work from home or at the IC-IMPACTS administrative offices in Vancouver, BC but no costs related to travel to the Vancouver offices or acquisition of supplies or equipment will be covered under the fee schedule. The successful candidate is not an employee of the University of British Columbia.

**Intellectual Property:** The products created will belong to IC-IMPACTS for their sole use and reproduction. The applicant may cite this work as their original creation and may disseminate the project in scientific journals and professional conferences or meetings.

**How to Apply:**

By October 25, 2016, please send an electronic application to Sue Roppel, Chief Operating Officer, at IC-IMPACTS at [roppel@ic-impacts.com](mailto:roppel@ic-impacts.com). If short-listed for this position, you will be required to provide the name and contact information for two references. All applications will remain strictly confidential.

Applications must consist of:

- a covering letter outlining relevant experience
- a copy of your current CV
- a sample of science communication material for young audiences, if available

We sincerely thank all applicants for their interest in IC-IMPACTS.

**About IC-IMPACTS:**

IC-IMPACTS (the India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability) is the first, and only, Canada-India Research Centre of Excellence established through the Canadian Networks of Centres of Excellence (NCE) and now supported as well by the Department of Science and Technology and Department of Biotechnology in India. Created through the vision of three of Canada's leading universities – The University of British Columbia, the University of Alberta, and the University of Toronto – IC-IMPACTS is a *pan-Canadian, pan-Indian Centre* that brings together a large international team of researchers, industry innovators, community leaders, government agencies, and community organizations from India and Canada, to work hand-in-hand to find solutions to the key challenges that affect the quality of life of millions of people in Indian and Canadian communities. The Centre's novel "partner-community" strategy strives to facilitate the effective and rapid mobilization of new technologies that will ensure holistic solutions are developed to improve water quality, increase the safety and sustainability of critical civil infrastructure, and improve health across both nations. Learn more at our website at: <http://www.ic-impacts.com>