

## Kaushik Venkiteshwaran

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Civil & Environmental Engineering  
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### Objective

To pursue a career in a visionary team and to develop myself with the organization which aims at achieving targets successfully, provide me with exposure to work culture and offer me challenges and as well as opportunities for career advancements in both technical and research fields.

### Education

- |  |                  |
|--|------------------|
| Clarkson University                                      | Potsdam, NY      |
| • Master of science in Civil & Environmental Engineering |                  |
| • GPA – 3.42/4 (May 2010)                                |                  |
| ICFAI-Tech institute of science and technology           | Hyderabad, India |
| • Bachelor of technology in Biotechnology                |                  |
| • GPA - 8.87/10 (June 2007)                              |                  |

### Research Experience

- |  |                        |
|--|------------------------|
| Clarkson University, Potsdam, NY   | (2008-Present)         |
| Department: - Civil & Environmental engineering  |                        |
| • Title: -Two-Stage Anaerobic Co-Digestion using crude glycerol or cheese whey with dairy manure to improve methane production   |                        |
| ○ The feasibility of using crude glycerol and cheese whey with dairy manure in a two stage anaerobic co-digestion process is being investigated  |                        |
| ○ Learned and designed a two stage semi-continuous anaerobic co-digestion reactor  |                        |
| Indian Institute of Chemical Technology, Hyderabad, India  | (Internship 2006-2007) |
| Department: - Bioengineering and Environmental center  |                        |
| • Title: - Harnessing of Bio-Hydrogen from Industrial Wastewater by Anaerobic Fermentation And Photo-Biological Routes   |                        |
| ○ Worked towards development of a technology to integrate with the existing treatment plant to produce sustainable energy apart from wastewater treatment  |                        |
| ○ Learned about the production Bio-hydrogen from wastewater treatment through acidogenic fermentation using various industrial wastewaters (chemical, dairy and distillery).   |                        |
| ○ Carried out the Reactor configuration (suspended/biofilm), mode of reactor operation (continuous/batch), inoculum preparation, startup procedure, addition of co-substrate and nutrients, integration with photo-biological hydrogen production/methanogenic process, application of bioaugmentation and self-immobilization on mesoporous material (SBA15)/activated carbon |                        |
| • Title: - Bioelectricity production from waste water using anaerobic treatment (Microbial fuel cell)  |                        |
| ○ Process optimization with respect to electrode materials, membrane material, fuel cell configuration, anodic microenvironment, operation conditions, bio-film coverage on anode etc.   |                        |

### Laboratory procedures

Fluorescent microscope, Ultra-violet Spectrophotometer, Infra-Red Spectrophotometer, Gas Chromatography, Atomic Absorption Spectrophotometer (AAS), High Performance Liquid Chromatography (HPLC), Polymerase chain reaction (PCR), Poly-acrylamide Gel Electrophoresis (PAGE) Northern, Southern and Western Blotting, Enzyme Linked Immunosorbent Assay (ELISA), Microbial Fuel Cell apparatus (dual and single chambered fuel cells / Graphite electrodes), Basic Microbiology Techniques, Basic Plant tissue Culture Techniques: Tissue Organogenesis, Micropropagation etc, Environmental lab / low temperature chamber (Indian Institute of Chemical Technology), Chemical Oxygen demand analysis, Volatile fatty acid analysis.

### Technical skills

Technical writing, Microsoft office XP package, Windows 95, 98, 2000, XP, C programming, MATLAB 7.0

**Conferences**

- Thousand Island energy Research Forum (TIERF) 2009: - A joint American and Canadian initiative to share each other's knowledge, ideas & experience in the field of alternate fuel technology and environmental engineering
- New York Water Environment Association (NYWEA) 2010: - I have been selected to present my masters research on "Two-Stage Anaerobic Co-Digestion using crude glycerol or cheese whey with dairy manure to improve methane production" at the conference in February 2010

**Scholarships**

- I was awarded scholarships in terms of tuition waiver in all 4 years (8 semesters) of my undergraduate education for academic excellence