

# Akshara Gopinath

## Environmental & Sustainable Technology

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### Education

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#### **MSc ENVIRONMENTAL AND SUSTAINABLE TECHNOLOGY - Merit**

The University of Manchester

Sep 2014 - Dec 2015

**Modules - Bio-refinery Engineering, Energy System, Distributed and Renewable Energy System, Nuclear Fuel Cycle, Sustainable Development and Industry**

##### *Knowledge/Experience*

- Awarded first class in dissertation study titled "The Impact of Organics on the Enhanced Actinide Removal Process". This study involved submission of an initial proposal along with a complete risk assessment and a final dissertation report which studied impact of organic compounds on the nuclear effluent treatment process and its relevance to the industry.
- Producing various environmental performance and review reports as a part of my Sustainable Development and Industry study, which helped gain experience in the production of a Life Cycle Analysis using C Calc of a fizzy drink production plant.
- Energy System study provided the opportunity to gain skills in specialised software STAR to design a Brayton-Rankine Combined Cycle Heat & Power Plant integrated with solar and wind power system.

#### **BEng (Hons) ENVIRONMENTAL ENGINEERING - 2.1**

The University of Nottingham

Sep 2011 - Sep 2014

**Modules : Advanced Transport Phenomena, Air Pollution, Environmental Management, Hazardous Waste Management, Water Treatment, Hydrology & Hydrogeology, Plant Design, Project Management**

##### *Knowledge/Experience*

- Awarded The University of Nottingham Bircumshaw Prize for having shown the most academic progress in the Engineering faculty for the academic year.
- Design study project based on a Sulphuric Acid Replacement plant design accompanied by PID, PFD, GA drawings, economic analysis, mass & energy balances, environmental and sustainability report.
- Plant design project based on the designing a waste water treatment process to enable recycling 45% of the up-stream processed water, not only meet environmental sulphur limit but also to reduce economic cost.
- Introductory Geology project required guiding a team of 6 to complete a phase 1 desk study followed by phase 2 risk and impact assessment to obtain a first class grade.
- Awarded a high second class for the environmental field course study which involved the analysis of soil samples, basic phase 1 desk study for a site and finally presenting an environmental impact assessment based on the results obtained.

### Work History

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#### **STUDENT REPRESENTATIVE**

THE UNIVERSITY OF MANCHESTER

Oct 2014 - Oct 2015

##### *Achievements/responsibilities*

- Successfully campaigned for and was elected as Student Representative for The University of Manchester MSc Environment and Sustainable Technology students.
- Successfully led the appeal to increase the number of optional modules available for the students.
- Lead the initiative to resolve various student concerns personally identified through various surveys & social media efforts.
- Conducting formal student face-face meetings, emails and student assembly.

## SOCIAL SECRETARY

THE UNIVERSITY OF NOTTINGHAM

Sep 2013 - Jun 2014

- Elected Social Secretary for Belly Dance Society.
- Organised an event as Social Secretary that won the Best Inter-Society Collaboration Award from the University of Nottingham, Student's Union.
- Successfully negotiated and organised various paid performances on and off campus.
- Reviewed past performance of the society and introduced creative themes for future events that eventually resulted in a 15% increase in member participation for the academic year.

## RESEARCH INTERN

AUROVILLE CONSULTING

Jul 2014 - Aug 2014

- Held responsibility for producing the chapter on waste management to be included in a white paper on The Development of Regenerative Campuses in India, which has now been published.
- Examined various waste management processes that could be implemented within building structures in third world nations, that is feasible in budget and technology constraints.
- Experience critical analysis of findings and producing innovative solutions that could be implemented on campuses that is economically and practically feasible.
- Addressing challenges together with potential solutions during discussions to match the project criteria.

## Customer Services Assistant

ICA-Independant Communication Advisors

Oct 2015 - Dec 2015

- Worked with the Sales and Marketing team in various social campaigns.
- Developed an efficient system to log faults, update contracts and complete invoicing.
- Resolve challenging day to day client queries with networks team.
- Manage and successfully run support desk, communicating well with other departments to ensure prompt and quick responses.
- Producing detailed maintenance contracts for existing client base.
- Processing new account applications and execution of welcome packages for new clients.
- Resolve technical issues promptly, avoiding the need to escalate the problem to our IT department.
- Producing sales and service invoices for various clients.
- Fluently used Microsoft Excel and Word for various document production.

## Skills

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### LANGUAGE



Proficient in English and Tamil. Completed two levels of German [A1 (53.50/60) and A2 (72%)]

### Engineering IT software



Completed certified AutoCAD 2D Modelling course. Basic knowledge of C++, MatLab, SPRINT, STAR and CCalc. Working knowledge of Microsoft Office Word, Excel, Powerpoint and Visio

## Extra-curriculars

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### VOLUNTEERING

Steward, Sounds on the Downs musical festival, University of Nottingham June 2012

Volunteer intern, Siruthuli Environmental Organisation June 2011 - July 2011

### SOCIETIES

IChemE, CIWEM, Engineers without Borders, Chemical & Environmental Engineering, Belly Dance Society, International Student Society