

# SOUMYADEEP MUKHOPADHYAY M.Sc, M.TECH, PHD

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Date of Birth: 22.08.1983 | PPSN: 1857195RA | Married



## PROFILE

Motivated and compliant researcher and environmental consultant with a thorough approach to groundwater, wastewater and soil treatment processes. I have experience in installation and research on various water treatment projects in India and Malaysia in collaboration with different European universities. In January 2017, I have shifted my base to Dublin and working freelance as an environmental and technical consultant to some water treatment projects with an UK consultancy firm. I am looking for full time or part time positions in water and waste treatment sectors or in Environment-Health-Safety sector. I am proficient in a number of software programs and analytical techniques. Additionally, I have thorough academic knowledge regarding HSE through my two Masters Degrees in these fields. I have passed NEBOSH IGC certification in February 2015.

## EDUCATION

- Doing **M.Econ.Sc** at J.E. Cairnes School of Business and Economics, NUI Galway, Natural Resource Economics and Policy (1 yr course)
- **Ph.D.** (Sept 2010-Apr 2014) on soil remediation from Dept of Chemical Engineering, University of Malaya & Queen's University Belfast
- **M.Tech.** (Aug 2007-Jun 2010) in Safety and Occupational Health Engineering from BESU, India (1st class, 74%)
- **M.Sc.** (Aug 2005-Jun 2007) in Environmental Science from Dept. of Environmental Science, University of Kalyani, India (1st class, 72%)
- **B.Sc. (Hons)** (2005) in Chemistry from St Xavier's College, Calcutta University, India (High 2nd class, 54.5%)

## JOB EXPERIENCES

- **Jan 2017- present:** CONSULTING DESIGN ENGINEER: Clients- Scientific Events Ltd (UK); Bright Green Energy Foundation (BGEF, Bangladesh)- Technical and scientific advice on installation of groundwater treatment plants
- **Jul 2014- Dec 2016:** UNIVERSITY OF MALAYA  
**Jul 2014- Dec 2016:** Post-Doctoral Research Fellow: Published 4 ISI papers, won 2 international project funding, filed for 1 patent  
**Jul 2010- Jun 2014:** Research Assistant: published 5 ISI papers, completed 4 research projects
- **Jul 2009-Jun 2010:** CONSULTING PROFESSIONAL AND ENVIRONMENTAL SERVICES, KOLKATA: Partner and In-Charge of Operations & Systems Division - for conducting consultation on third party HSE audit. This was my entrepreneurial attempt.
- **Oct 2008-Jun 2009:** RAMAKRISHNA VIVEKANANDA MISSION -INSTITUTE OF ADVANCED STUDIES: Team Leader, World Bank Project "Subterranean Arsenic Removal" (DM 06-880). Successful completion of project and awards won. [www.insituarsenic.org](http://www.insituarsenic.org)

## CONSULTANCY AND RESEARCH PROJECTS (COMPLETED & ONGOING)

- Industrial research for delivering arsenic free water to communities in India, Newton-Bhaba UK-India project; File Ref: 102727
- Installation of a water treatment pilot plant for in-situ arsenic removal at Comilla, Bangladesh by BGEF
- Integrated water resources management & planning system in Malaysia- Newton-Omar Ungku UK-Mal project, App ID 172690856
- Affordable and Serviceable Iron removing filter for rural community - (PRGS) Malaysian Govt (PR002-2015A)
- In-situ remediation of groundwater contaminants (UMQUB6A-2011) University of Malaya (UM)-Queen's University Belfast project
- Heavy metal removal from groundwater by low-cost technology (THEQS2010A) UM-QUB-Air Kelantan joint project
- Remediation of Contaminated Soil & Groundwater (PV102-2011A)
- In-Situ Remediation of Contaminated Soil & Groundwater (PS100-2010B)
- Subterranean Arsenic Removal: Experiment to Delivery (World Bank Project DM 06-880), installation of 6 water treatment plants

## COMPUTER SKILLS:

MS Office ****	Corel Draw ****	End Note ****	Origin Pro ***	WinLab 32 (ICP-OES) ***	ArcGIS ***
Design Expert ***	SmartDraw ***	GanttProject ***	AutoCad 2D & 3D **	ChemSketch **	Google SketchUp *
Web designing **	EPANET *	EPA SWMM*	Visual MODFLOW*	ImageJ (SEM image) *	

\*\*\*\* Extensive knowledge; \*\*\* Good working knowledge; \*\* Good understanding; \* Rudimentary knowledge

## INSTRUMENTATION SKILLS:

- ICP-OES • Zetasizer • Hach Hydrolab (Water Quality Sonde) • FT-IR Spectrophotometer • X-Ray Diffraction (XRD) • Scanning Electron Microscope (SEM) image processing • Surface Tensiometer • Viscometer • High P High Temp reactors • BOD/COD/DO measurement • Sonicator • High Volume Sampler • UV-Vis Spectrophotometer • pH/conductivity meter, etc

## TRAINING AND CERTIFICATE COURSES DONE

- Course on "Introduction to Practical GIS", 1<sup>st</sup>-2<sup>nd</sup> of June 2017 at the GIS Centre, Ryan Institute, NUI Galway, Ireland
- NEBOSH IGC Certification (UK), February 2015
- Training workshop on "Effective Strategies for Increasing Citation Frequency" University of Malaya, 2014.
- "Workshop on X-ray Diffraction (XRD) and Scanning Electron Microscope (SEM)", University of Malaya (3 days), 2012.
- "Product Information Course on ICP-OES and hands-on training" conducted by Perkin-Elmer, Malaysia (3 days), 2012.
- "Taguchi Method for Process & Product optimization" organized by IEE, EDS, Malaysia (3 days), 2011
- Certificate course on "Risk assessment in Chemical Process Industries" Jadavpur University, Kolkata, India (3 weeks), 10/2009.
- Certificate course on "Management Development Programme" MSMEDI, Govt of India (1 week), 9/2009.
- "Industry-Academia Partnership on Health & Safety at Workplace" at BESU, 2009.
- "International Seminar on In-situ Arsenic Treatment Technology" at RKVM-IAS, Kolkata, 2009.
- "24th Regional Rural Eco-development Training Camp" by "School of Fundamental Research" 01/2007.
- "National Workshop on Solid Waste Management" at University of Kalyani, 2007.
- National Workshop on Biodiversity and Conservation, by Centre for Environmental Studies, Visva-Bharati, India, 2006.

## OTHER ACTIVITIES

- Organized 2 short courses and 6 research meetings under the program "British Council Institutional Link Fund : Newton-Omar Ungku project - Integrated water resources management and planning system in Malaysia; Project id: 172690856" (2015-2016)
- Represented Faculty of Engineering, University of Malaya at Student's Conference for AOTULE 2013 at Chulalongkorn University, Bangkok, Thailand.
- Reviewer of a number of peer-reviewed journal: Journal of Environmental Management, Frontiers of Environmental Science and Engineering, Advances in Water Resources, Ecotoxicology and Environmental Safety
- Reviewed a book titled "Environmental & Climate Change in South and SE Asia" by BRILL publications (ISSN: 2213-0519)
- Held the post of "Student Representative" at the Dean's Meeting for Asia-Oceania Top University League in Engineering (AOTULE) in 2012.
- Founder member of the Faculty of Engineering Post Graduate's Club, UM (FPECUM), 2012-14
- "Publication & Communications-in-charge" of UM Chemical Engineering Post Graduate's Club (CEPGC), 2012-15
- "Website Moderator" & "Publications-in-charge" in the Governing Body of Kalyani University Environmental Science Alumni Association (KUESAA)
- Executive Producer of a 45 min documentary film on "In-situ Arsenic Treatment Technology"
- Designer & Moderator of several websites (e.g. kuesaa.org, insituarsenic.org, soumyadeep.net)

## AWARDS AND RECOGNITIONS

### PERSONAL RECOGNITIONS

- 2007: Held 1st position in the "24th Regional Rural Eco-development Training Camp" organized by "School of Fundamental Research" Regional Resource Agency (NEAC, MoEF) at Bankura for 9 days.
- 2011: ScienceDirect Top 25 : 4th Most Downloaded Article for Journal of Environmental Management January to December 2011 full year, Elsevier (Remediation technologies for heavy metal contaminated groundwater)
- 2012: ScienceDirect Top 25 : 2nd Most Downloaded Article for Journal of Environmental Management January to December 2012 full year, Elsevier (Remediation technologies for heavy metal contaminated groundwater)
- 2013: Awarded 1st place in University of Malaya Three-Minute Thesis Competition at Faculty of Engineering
- 2013: Invited presentation at University of Malaya Researchers' Conference 2013 (Special Session 3: Future Research Leaders), 19-20 November 2013, University of Malaya, Kuala Lumpur, Malaysia.

### TEAM AWARDS (RECEIVED AS A MEMBER OF THE IN-SITU ARSENIC TREATMENT PROJECT TEAM)

- 2009: Dhirubhai Ambani Award (Global Innovation Award for Resource-poor people) - IChemE, UK
- 2009: THE Outstanding Engineering Research Team Award
- 2010: DeIPHE British Council Grant (Arsenic Awareness Campaign) Cambodia
- 2010: St Andrew's Prize for the Environment (St Andrew's University Scotland & Conoco Philips)
- 2011: Innovation Award for Remediation Technology - UK Environment & Energy Award
- 2012: Energy Globe Award (India) - Energy Globe Foundation, Austria
- 2012: Energy Globe World Award for Water - The Energy Globe Foundation
- 2012: National Green Apple Award - Green Organization, UK
- 2015: Newton-Omar Ungku fund- British Council Institutional Link Programme
- 2016: Newton Fund - India-UK Collaborative Industrial Research & Development Programme 2015

## PUBLICATIONS

14 ISI cited articles, 24 conference papers and 7 project reports. Google h-index = 7, For further details, please visit <https://scholar.google.com/citations?user=RDUAVPIAAAAJ&hl=en> ; ORCID <http://orcid.org/0000-0002-1838-2815>

## ONLINE PROFILES

LINKED IN:	<a href="http://my.linkedin.com/pub/soumyadeep-mukhopadhyay/19/ba8/135">http://my.linkedin.com/pub/soumyadeep-mukhopadhyay/19/ba8/135</a>
ORCID:	<a href="http://orcid.org/0000-0002-1838-2815">http://orcid.org/0000-0002-1838-2815</a>
RESEARCH GATE:	<a href="http://www.researchgate.net/profile/Soumyadeep_Mukhopadhyay/">http://www.researchgate.net/profile/Soumyadeep_Mukhopadhyay/</a>
RESEARCHER ID:	<a href="http://www.researcherid.com/rid/B-1352-2011">http://www.researcherid.com/rid/B-1352-2011</a>
GOOGLE SCHOLAR:	<a href="http://scholar.google.com.my/citations?user=RDUAVPIAAAAJ&amp;hl=en">http://scholar.google.com.my/citations?user=RDUAVPIAAAAJ&amp;hl=en</a>
ELSEVIER REVIEWER:	<a href="http://www.reviewerpage.com/soumyadeep">http://www.reviewerpage.com/soumyadeep</a>
ACADEMIA EDU:	<a href="https://independent.academia.edu/SoumyadeepMukhopadhyay">https://independent.academia.edu/SoumyadeepMukhopadhyay</a>
SCOPUS:	<a href="https://www.scopus.com/authid/detail.uri?authorId=7401807669&amp;origin=AuthorEval">https://www.scopus.com/authid/detail.uri?authorId=7401807669&amp;origin=AuthorEval</a>
FACEBOOK:	<a href="https://www.facebook.com/soumya.tublu">https://www.facebook.com/soumya.tublu</a>

**References:** Prof Bhaskar Sen Gupta OBE ([b.sengupta@hw.ac.uk](mailto:b.sengupta@hw.ac.uk)); Prof Xinmin Zhan ([xinmin.zhan@nuigalway.ie](mailto:xinmin.zhan@nuigalway.ie)); Ir Wan Zamri Wan Ismail ([zamri\\_tvest@yahoo.com](mailto:zamri_tvest@yahoo.com)); Prof Ir Mohd Ali Hashim ([alihazim@um.edu.my](mailto:alihazim@um.edu.my)); Dipal C.Barua ([dipal@greenenergybd.com](mailto:dipal@greenenergybd.com))

Dated: September, 2017

Soumyadeep Mukhopadhyay