



## Sciforce Spotlight

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This encyclopedia provides a brief biography of a renowned researcher, Dr. Uttam K. Chowdhury, Ph.D.

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### ABSTRACT

Dr. Uttam Chowdhury, Ph.D., is a renowned researcher in the field of arsenics..

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Dr. Uttam Chowdhury, Ph.D., is a renowned researcher in the field of arsenics. He worked in the Department of Molecular and Cellular Biology at the University of Arizona, USA (2003-2010) as an Assistant Research Professor/Researcher/Co-PI with a renowned toxicologist named Prof. H. Vasken Aposhian. With a Ph.D. in Science from SOES (School of Environmental Science), Jadavpur University, India, under the supervision of Prof. Dipankar Chakraborti, one of the world-famous scientists in the field of arsenic research, Dr. Chowdhury has made significant contributions to the field of environmental science on arsenic research. His scholarly output includes over 90 research articles in peer-reviewed journals, book chapters, conference papers and abstracts, with publications in prestigious journals such as *Nature*. Uttam Chowdhury's enormous scientific merit is demonstrated through 6823 citations (21 publications cited more than 100 times and one publication cited more than 1326 times), 40171 reads, 3363 research interest score, and an h-index of 35 till today, February 23, 2024 (Source: Research Gate and Google Scholar). As of today (February 23, 2024), his Research Interest Score is higher than 98% of the Research Gate members (global network of 25+ million researchers).

Due to its important value-ability in the arsenic research field, one of his publications has been reported as entitled "Arsenic in Asia-Water at Its Worst" on the "Science

Selections" in the *EHP* journal (May 2000, Volume 108, Number 5, Page A 224) by Karen Breslin. This topic was also selected and used as the cover page of this journal (*EHP*, May 2000, Volume 108, Number 5).

Dr. Chowdhury's research has been recognized with several awards and fellowships, including a Research Fellowship in 2002 at the National Institute for Environmental Studies (NIES), Ministry of the Environment, Japan, focusing on environmental planning for global environment protection. He also received Research Fellowships in 2001 and 2000 from the National Institute of Health Sciences

(NIHS), Ministry of the Environment, Japan, dedicated to maintaining global environmental protection.

He is a recipient of the Jawaharlal Nehru Scholarship (2000-2001) for Doctoral Studies and the Award of Research Fellowship (1999-2001) from the University Grand Commission in New Delhi, India. Dr. Chowdhury has also been acknowledged for his academic excellence with a place on the Dean's Honor List at Dhaka University, Dhaka, Bangladesh, from 1985 to 1996. He has completed his B.S. (Honors) and M.S. from the Department of Biochemistry at Dhaka University, Bangladesh.



In addition to his research achievements, Dr. Chowdhury is an experienced mentor and leader. He has extensive experience in training and managing undergraduate and graduate students, visitors from national and international institutes/universities, along with postdoctoral fellows in laboratory practices. As a laboratory manager and researcher, he has overseen the operation of the Geochemistry Lab under the Geochronology and Thermochronology program in the Department of Geo sciences at the University of Arizona, USA since 2010, supervising over 25 student workers and employees. He had also guided more than 30 field assistants in sample and data collection and lab assistant for sample preparation under the “water and sanitation programs” with different research projects funded by

ADB, UNICEF, USAID, IDA, DFID, SDC, etc., in different areas of Bangladesh between 1994 and 1998 when he was a Research Officer in the Environment & Health Program (EHP) at the International Center for Diarrheal Disease Research, Bangladesh (ICDDR, B), Dhaka, Bangladesh.

Dr. Chowdhury is a respected instructor, leading intensive summer workshops at the University of Arizona. His professional memberships include the Society of Toxicology (SOT), American Society for Mass Spectrometry, American Chemical Society (ACS), and the New York Academy of Sciences (NYAS), USA, underscoring his commitment to the broader scientific community.

Community engagement and synergistic activities:

- (1) Helping students with their education through free tutoring/teaching and distributing books, papers, pens, etc.



- (2) Creating different scholarship programs for elementary to post high school students, not only to help their education but also to improve their social activities and behaviors to become a good human being.



(3) Organizing “Science Fairs” for developing students’ in STEAM education.



(4) Developing a public library for the students and the communities.



(5) Creating a library named “Choloman (On the way) STEAM AIR Library” that travels from place to place and school to school to distribute books (hand to hand and person to person) and provide scientific information on health science, space science, engineering, chemistry, biology, physics, artificial intelligent, robot, computer, information technology, etc. to improve knowledge of STEAM education among the students and get opinion-based on their needs, which the library will provide accordingly



(6) Organizing “Health Camps” to improve villagers’ health and their awareness.



(7) Creating a “Free Health Center” to improve peoples’ health awareness (e.g., blood pressure, diabetes, cancer, food/diets, lifestyles including physical activities, etc.) and knowledge of how to become a healthy person..



(8) Peer reviewer of manuscripts for academic research journals.

(9) Editorial board member of academic research journals.