

## RESUME

### DR. RASOOL BUX MAHAR

Vice Chancellor  
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### PROFILE SUMMARY

Prof. Dr. Rasool Bux Mahar is a **Meritorious Professor** and Environmental Engineer with over 30 years of experience in academics, research, and administration. He currently serves as the **Vice Chancellor at Benazir Bhutto Shaheed University of Technology and Skill Development**, Khairpur Mirs, Sindh, Pakistan. His role is pivotal in driving the university towards new heights, offering a range of undergraduate degree programs in Civil, Electrical, Electronics, and Mechanical Engineering Technology, as well as a Bachelor of Science in Computer and Artificial Intelligence. Dr. Mahar places a strong emphasis on vocational training and skills development, with the university providing a 3-year Associate Engineer Diploma in 13 disciplines and six-month short courses in 40 different trades.

Dr. Mahar's dedication extends to empowering the community through hands-on technological knowledge and promoting a high-quality teaching and research environment enriched with innovative tools, techniques, and a focus on entrepreneurial and global leadership skills. He is particularly committed to the integration of ethical norms and values in education.

### **Previous Leadership in USPCASW:**

- Dr. Mahar also led the U.S.-Pakistan Center for Advanced Studies in Water (USPCASW), Mehran University of Engineering and Technology (MUET), Jamshoro in his capacity as a Director (from March 2020 to March 2023).
- USPCASW was established in December 2014 with the support of USAID, the Center is now recognized as the National Water Center, an independent MUET entity governed and guided by the Center's Board of Governors (BoG).
- Dr. Mahar remained associated with this Center in different capacities since its establishment in 2014. He played an active role in the development of the Center during its 5-year project period (December 2014 to 2019) and beyond, initially as a HOD Environmental Engineering Department in the Center (December 2014 to July 2017) and Deputy Director (Academic & Research) from July 2017 to Feb 2020.
- Later, he was entrusted with the responsibilities as the first Director of the Center, whereby he assumed the challenging role of sustaining the Center's programs without compromising on the quality and also generating funds for sustainable growth and implementation of the Center's mandate in an effective manner. Dr. Mahar was instrumental in winning research projects not only for the Center but also for the projects he led. During the period from March 2020 to 2023, the Center had won research projects worth Rs.400 million.

### **Earlier Career at MUET:**

- He worked as Co-Director/ Head of the Department of Environmental Engineering & Management at MUET from 2008 to 2014, before joining the Water Center. He started his

career as a Lecturer in August 1993 at the Department of Civil Engineering, MUET where he was elevated to the post of Assistant Professor (1998-2003), PhD Scholar (2003-2007), and Professor in 2008.

### **Editorial and Publication Contributions:**

- Dr. Mahar remained as an Editor and Chief Editor of the Mehran University Research Journal of Engineering and Technology from 2013-2023.
- He published more than 150 research papers in international journals ISI indexed of Thomson Reuters having cumulative impact factors over 300, and more than 100 papers presented in the conferences and symposium.
- He has authored two books.
- Having Google Scholar Citations more than 2700, H-index of 25 and i-10 index of 67.

### **Research Focus:**

- Specialized in waste management, anaerobic digestion, water and wastewater treatment, reuse and recycle.
- Piloted anaerobic digestion plants in Al-Raheem Textile Mill Limited and Matol Distillery Pvt. Limited.
- Having expertise in membrane bioreactor, and synthesis and testing of membranes for water and wastewater treatment
- Number of research projects and consultancies executed as Principal Investigator/ team leader funded by various organizations like USAID, HEC, DFID, TEARFUND, World Bank, UNEP, PSF, CPEC, etc.

### **RESEARCH PROJECTS**

<b>Designation</b>	<b>Project Description</b>	<b>Amount</b>	<b>Duration</b>
Team Lead/ Principal Investigator	Water Governance for SINDH (WGS) - Activity under Cooperative Agreement No.72039122CA00004 – Municipal Committee Jacobabad Funded by USAID through HANDS	182.00 M	2022-2024
Principal Investigator	Conserving Indus River water quality through pollution source tracking and water circular economy	63.00 M	2022-2024
Team Lead	Socio-economic impacts of 14 Small Dams, constructed in the Arid Area of Sindh, on the community	9.50 M	2022
Principal Investigator	Safety Evaluation and Adaptation Mechanism of Water-Energy-Food (WEF) Nexus in CPEC under Climate Change	12.89 M	2022-2024
Principal Investigator	Capacity building at MUET, Jamshoro to address drinking water issues in Pakistan, the project was funded by Pak-US (S&T) through HEC.	18.35 M	2017-2019
Principal Investigator	Identification of antibiotic resistant bacteria in different source waters in Hyderabad City and its surroundings, funded by USAID under Competitive Research Grants Program of US-PCASW, MUET, Jamshoro.	2.78 M	2016-2017

Principal Investigator	Optimization of anaerobic digestion process using co-digestion of crop residues and buffalo dung, funded by HEC.	4.20 M	2015-2017
Principal Investigator	Worked as a Project Coordinator/P.I, UNEP funded project titled, Converting Waste Agriculture Biomass into Resource/Energy.	4.00 M	2008-2011
Project Coordinator	Worked as a Technical Facilitator in British Council and DFID funded project under DelpHE, titled, “Capacity Building and Urban Water Demand Management”.	8.0 M	2008-2011
Principal Investigator	“Characterization and Quantification of Municipal Solid waste of Hyderabad City”, funded by HEC.	0.80M	2007-2009
Principal Investigator	“Impact of Lakhra and Jamshoro Power Plants Effluents on the Water Quality of River Indus”, funded by the World Bank through EPA Sindh.	0.10 M	1998-1999

### ADVISORY EXPERIENCES

Designation	Description	Duration
Member	Syndicate for two tenures	2001-2003 & 2017-2019
Member	Finance Planning Committee for two tenures	2018- to date
Member	Senate & Academic Council, MUET, Jamshoro	2008 – to date
Member	Board of Studies (BOS) Department of Environmental Engineering and Management	2009 - to date
Member	Board of Studies (BOS) of Environmental Engineering @ USPCASW, MUET, Jamshoro	2015 – to date
Member	Advanced Studies and Research Board (ASRB)	2011 – to date
Member	Consultant Selection Committee Works and Services Department, Govt. of Sind	2008 – 2011
Member	Steering Committee on Urban Development Centre, P&D Department Govt. of Sind	2010-2014
Member	Board of Sindh Irrigation and Drainage Authority (SIDA)	2015 to date
Convener	Health and Safety Committee, Mehran University of Engineering & Technology, Jamshoro	2009 to 2014

### FOREIGN TRAINING COURSES

- Participated in a meeting of Solid Waste Management Experts in Asia and Pacific Islands (SWAPI) from 22 to 26 February 2015, organized by Japan Environment and Sanitation Center.
- Global Dissemination Workshop on Converting Waste Agricultural Biomass into Energy, Osaka, Japan, 16-19 December 2014.
- Sub-regional Dissemination Workshop on Converting Waste Agricultural Biomass into Energy, South Asia, 12-14 November 2013, New Delhi, India
- Fifth Asia-Pacific Urban Forum held from 22–24 June 2011 at the United Nations Conference Center (UNCC) in Bangkok, Thailand
- Regional Workshop on Waste Agricultural Biomass held from 2-5 March 2010, organized by UNEP/GEC, Osaka Japan.
- Training Workshop on Integrated Solid Waste Management held on 4-9 October 2009 organized by UNEP, IETC, Osaka Japan.
- 2-days Training Workshop on Capacity Building in Geospatial Information and Environmental Data held on 13-14 June, 2011 at Regent Plaza Hotel Karachi Organized by NIEMS and UNDP,

Pakistan.

### List of Patents

1. Zeeshan Khatri, Farooq Ahmed, **RB Mahar**. Gravity water filter using nanofiber membranes. PK Patent filed 6/2017 (March 2017)
2. Zeeshan Khatri, Farooq Ahmed, **R.B. Mahar**, Najma Memon, Rafiuzzaman Brohi Zein- Polyvinyl Alcohol Nanofiber as a biphasic drug release and method of making/using thereof. US Patent Submitted (July 2015).
3. **R. B. Mahar**, Tanveer Ahmed Gadhi and Tayyabuddin. Development of a Life-Saving Water Filter for the provision of fresh drinking water during disaster and flood emergencies (October 2022). PK Patent filed 10/2022 (October 2022).

### LANGUAGE SKILLS

Languages	Reading	Writing	Speaking
Balochi	-	-	Good
Sindhi	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent

### Personal Background and Education:

- Born on January 1, 1968, in a rural setting in district Sanghar, Sindh, Pakistan.
- B.E. (1993) and M.E (1999) in Civil Engineering from MUET Jamshoro.
- Ph.D. in Environmental Engineering (2007) from Tsinghua University, Beijing, China.
- Post Doctorate (2016) from the University of Utah, USA.
- Countries Visited: USA, Japan, Malaysia, China, Turkey, Thailand, UAE, UK, Italy, Saudi Arabia and Indonesia

### Contact Address:

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