

Md Roushon Jamal, PhD

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Summary Profile

Dr. Md Roushon Jamal is an internationally focused Agriculturist, competent civil servant, PRINCE2 qualified project manager, change-making organizational leader, and innovative training expert. As a senior member of the Bangladesh Civil Service (Deputy Secretary), currently, Dr. Jamal has been working in the Bangladesh Public Administration Training Centre (www.bpatc.gov.bd) as a Director (Research and Development). As an agriculturist, Dr Jamal worked in the Department of Agriculture Extension (www.dae.gov.bd), Ministry of Agriculture (www.moa.gov.bd), Bangladesh for more than 15 years (2003 to 2018). He has achieved a strong understanding of global challenges and policies in agriculture, resilience, food security, and sustainable development through collaboration with international organizations. Through his studies and work experience, Dr. Jamal has gained significant expertise in Ag Tech innovations, policymaking, research, and management. Through his doctoral research, he has gained expertise in climate and environmental challenges, their impacts on resilient cropping systems, ecosystems, livelihoods, and adaptation strategies.

1. Academic profile

Year	Degree/Certificate	University/Country	Major area
2022	PhD in Agriculture <i>Cropping and aquaculture system transformation in Southwest Coastal Bangladesh: Impacts of environment and socioeconomic changes</i>	University of New England, Australia	- Agricultural Transformation - Climatic and production risks - Resilient cropping systems
2015	MSc in Project Management	University of Bedfordshire, United Kingdom	- Project management tools - Procurement & value chain - Risk & quality management
2015	PRINCE 2(Foundation)	United Kingdom	- Project management themes
2007	MBA (Executive)	Southern University	- HRM
2002	MS in Plant Pathology (seed pathology)	Bangladesh Agricultural University (BAU)	- Seed pathology - Epidemiology and genetics - Disease microbiology
1999	B Sc in Agriculture	Bangladesh Agricultural University (BAU)	- Agronomy and horticulture - Plant pathology and breeding - Soil and water management

2. Work experience

Period	Position	Key responsibilities
2025 to current	Director (R & D) BPATC	- Planning and implementation of a research project at BPATC - Turning research into policy and action - Research collaboration with other organizations
2024	Director (Program) DSS	- Planning and monitoring social services - Registration and control of NGOs
2018-23	PhD Fellow	- Research and Publication
2011- 18	Upazila Agriculture Officer	- Ag Tech support for sustainable cropping systems - Project design, planning, implementation, and monitoring - Reporting, publication, and liaison - Seed technology and seed certification - Collaboration with multiple stakeholders - Regulations and control of pesticides, fertilizers, and seeds - Validation research and Ag Tech demonstration - Export promotion of vegetables and fruits
2009-10	Additional Agriculture Officer	- Farmers training, motivation, arranging farmers' field school - Pesticide and fertilizer administration and regulation - Planning, implementing, and monitoring farmer's training - Conducting field research, data collection, and reporting - Conducting farmers and staff training on modern Ag Tech - Project implementation and monitoring
2003-2008	Agricultural Extension Officer	- Soil testing and fertilizer recommendation at farmers level - Transfer of innovative and sustainable Agricultural Technologies - Inspection and control of fertilizer, pesticide, and seeds - Regulations and control of agro-chemicals - Soil and water management - Farmers and entrepreneurs training
2000-02	Scientific Officer	- Seed health testing (laboratory and field)

3. Working experience with international organizations

International agencies	Projects
Consultative Group on International Agriculture Research Asian Development Bank (ADB)	Zinc Fortification in Rice in Bangladesh Crop Diversification and intensification
Danish International Development Agency (DANIDA)	Integrated Farm Management Project
World Bank	National Agricultural Technology Projects
International Fund for Agricultural Development (IFAD)	Smallholder's development projects
Japanese International Cooperation Agency (JICA)	Postharvest practices in Bangladesh
United Nations Development Programme (UNDP)	Food and nutrition security
US Agency for International Development (USAID)	Surface water management project
Food and Agriculture Organization (FAO)	Rural Food and Nutrition Security
World Food Programme (WFP)	Feeding vulnerable farmers
Blue Gold Programme (Netherlands)	Community-based water management
International Rice Research Institute (IRRI)	Validation of modern rice technologies
Swedish Development Corporation (SDC)	Agroforestry development project

Cooperation for American Relief Everywhere (CARE)	High-value vegetable production project
World Vision	School Agriculture for nutrition
International Development Agency	Value-chain and market development

4. Scholarship, fellowship, awards, grants, and prizes

Year	Description
2017	University of New England International Postgraduate Research Award (UNE IPRA) for PhD study at the University of New England, Australia
2013	Strengthening Government Scholarship for BCS cadre officers for foreign Master's Degree
2012	Agriculture Technology Prize awarded by the National Agriculture Technology Project
2013	National Agriculture Technology fellowship for training and exposure visit in the Philippines
2011	Agriculture Technology Awards 2011 by Fortnightly Agriculture Technology
2011	Danish Fellowship Centre (DFC) scholarship for a short training course on Conflict Transformation in Copenhagen, Denmark
2001	Bangladesh National Cadet Core Award by BNCC, Mymensingh
2001	Prime Minister Award, National Education Week- 2001, Government of Bangladesh
2000	Vice-Chancellor Award, National Education Week-2001 by Bangladesh Agricultural University, Mymensingh

5. Research articles

Title	Name of the journal	Date/status
Blue Grabbing of Green Crop Fields: A Development Conundrum in Southwest Coastal Bangladesh https://doi.org/10.1016/j.landusepol.2024.107161	Land Use Policy (IF: 7.1)	Jul 2024
Assessment of land use transition and crop intensification using geospatial technology in Bangladesh https://doi.org/10.1016/j.cscee.2024.100660	Case Studies in Chemical and Environmental Engineering (IF: 6.23)	2024
Challenge and Adaptations for Resilient Rice Production under Changing Environments in Bangladesh https://doi.org/10.3390/land12061217	Land (IF: 2.905)	12 Jun 2023
Can Vannamei shrimp revitalize Bangladesh's dying shrimp industry? https://link.springer.com/article/10.1007/s10499-022-01045-9	Aquaculture International (IF: 2.95)	Published on 30 Dec 2022
Risks and adaptation dynamics in shrimp and prawn-based farming systems in southwest coastal Bangladesh https://doi.org/10.1016/j.aquaculture.2022.738819	Aquaculture (IF: 5.135)	Published 14 Sep 2022
Cropping systems intensification and diversification: risk, vulnerability & adaptation in southwest coastal Bangladesh. https://doi.org/10.1080/13504509.2022.2073615	International Journal of Sustainable Development & World Ecology (IF 4.8)	Published 11 May 2022
Big Boro rice harvest during COVID-19 pandemic: an optimism for resilient rice system in Bangladesh https://doi.org/10.18801/jbar.280121.285 https://www.journalbinet.com/testjbar-280121-285.html	Journal of Bioscience and Agriculture Research	Published 2 Nov 2021

Trajectories of cropping system intensification in south-west coastal Bangladesh. https://doi.org/10.1080/14735903.2021.1975436	International Journal of Agricultural Sustainability (IF: 3.85)	Published 7 Sep 2021
Rice Security in Bangladesh- conference paper. https://doi.org/10.13140/RG.2.2.20496.12804	International Graduate Student Conference,	09 Feb 2021
Bangladesh's dying shrimp industry crying for policy action https://doi.org/10.47440/JAFE.2024.5211	Journal of Agriculture, Food and Environment	2025
Rice security under changing environment: Adaptation and policy response in Bangladesh	Climate and Development	Under review
Predicting the impact of temperature and rainfall on Boro rice production in Bangladesh	Bangladesh Journal of Environmental Science	Published Dec 2016
Evaluating Project Risk Management in construction projects in Bangladesh	Rural Development Academy Journal, 19 (1)	Published Jun 2016
In vitro regeneration and transformation of chickpea via grafting	Bangladesh Journal of Crop Science, 21(1)	Published Dec 2010
Efficacy of garlic and neem extracts on germination and control of seed-borne fungal pathogens of rice	International Journal of Bio Research, 9 (3)	Published Nov 2009
Effect of plant extracts on germination and control of seed-borne fungal pathogens of jute	Journal of Subtropical Agricultural Research and Development, 7 (5)	Published Oct 2009

6. Media articles, opinion pieces, and editorials on the global and national issues in Agriculture

Articles are available in links provided

Title	Link
Climate Justice for a Resilient Food System	https://thefinancialexpress.com.bd/views/climate-justice-for-a-resilient-food-system
Stopping Encroachment of Crop Land	https://today.thefinancialexpress.com.bd/views-reviews/stopping-encroachment-on-cropland-1733327821
Food Security and Farmers	https://epaper.samakal.com/nogor-edition/2024-10-16/4/4622
What causes Boro rice Area Statistical Mismatch?	https://www.daily-sun.com/post/803740
Statistical Fraud in Agriculture	https://bonikbarta.com/editorial/DgecxmkelAKp72DV
Nano Ura: A breakthrough	https://www.daily-sun.com/printversion/details/728676
Blue Grabbing of Green Crop Field	https://www.daily-sun.com/post/790935
Soil Justice for Sustainable Dev.	https://www.daily-sun.com/printversion/details/724482
Billion-dollar Orange Industry by 2035	https://www.daily-sun.com/printversion/details/706553/Billiondollar-Orange-Industry-by-2035:-Chasing-an-Ambitious-Dream
Going green, eating clean and embracing beans	https://www.policyforum.net/going-green-eating-clean-and-embracing-the-bean
Making Australia drought-proof	https://www.policyforum.net/making-australia-drought-proof
Expectations for Coastal Bangladesh	https://www.daily-sun.com/printversion/details/585175/Expectations-for-Coastal-Bangladesh
COP26 is a chance to protect the most valuable and vulnerable	https://www.policyforum.net/cop26-is-a-chance-to-protect-the-most-valuable-and-vulnerable

Bangladesh Rice Policy Paradox	https://www.policyforum.net/bangladeshs-rice-policy-paradox/
Can Bangladesh emulate Australia's vision for agriculture?	https://www.daily-sun.com/printversion/details/552980/Can-Bangladesh-Emulate-Australia's-Vision-for-Agriculture?
Supporting farmers in Bangladesh	https://www.policyforum.net/supporting-farmers-in-bangladesh
Rice import to curb price spiral in COVID 19 era and price spiral	https://www.daily-sun.com/printversion/details/506264/Rice-Import-to-Curb-Price-Spiral-in-Covid19-Era
Australia's Farmer market and Deprivation of our Farmers	https://www.daily-sun.com/printversion/details/505612/Australias-Farmer-Market-and-Deprivation-of-Our-Farmers
Zero hunger: dream and reality for Bangladesh	https://www.daily-sun.com/printversion/details/303135/Zero-Hunger:-Dream-and-Reality-for-Bangladesh
Rice security in Bangladesh	https://www.daily-sun.com/printversion/details/344543/2018/10/21/Rice-Security-in-Bangladesh
Golden dream for golden fibre	https://www.daily-sun.com/arcprint/details/131671/Golden-dream-for-golden-fibre/2016-04-27
Britain's Land Hero and call for COVID 19 age (Bengali)	https://www.banglanews24.com/opinion/news/bd/784651.details
The pioneer of the green revolution	https://www.thedailystar.net/opinion/tribute/news/the-pioneer-the-green-revolution-1798414
Potato for food security and climate change adaptation	https://www.daily-sun.com/printversion/details/226424/Potato-for-Food-Security-and-Climate-Change-Adaptation
Paris Agreement and Bangladesh's Agriculture	https://www.kalerkantho.com/print-edition/sub-editorial/2016/02/04/320904
Research success of BAU VC and citizen's hope (Bengali)	http://shobujbangladesh24.com/others/editorial/35418/
Deprivation of rice farmers (Bengali)	https://samakal.com/todays-print-edition/tp-editorial-comments/article/19053037
Do you hear the crying of soil?	https://samakal.com/todays-print-edition/tp-muktomoncha/article/1707311527
Golden dream for golden fibre	https://www.kalerkantho.com/print-edition/sub-editorial/2017/03/27/479267
Towards evergreen revolution	https://www.dailysun.com/printversion/details/303143/2017/03/16/Towards-Evergreen-Revolution
Manage water better	https://www.dailysun.com/printversion/details/303143/2015/12/30/Manage-Water-Better

7. Project Management Role

Name of the project	Role	Year
National Agriculture Technology Project Phase II	Project manager at Upazila level	2017
National Agriculture Technology Project Phase I	Project manager at Upazila level	2009
Integrated Pest Management (IPM) Project	IMP expert and trainer	2008
Integrated Agriculture for nutrition security	Project manager at Upazila level	2010
North-west Crop Diversification Project	Horticulture specialist	2006
Second Crop Diversification Project	Project manager at Upazila level	2012
Drought Management Project in North Bengal	Agronomy specialist	2007
Citrus Development Project	Plant Protection Specialist	2015

Farm mechanization project	Project monitoring and evaluation	2010
Surface water management project	Agronomy consultant	2011
Agriculture and rural development project	Project monitoring and evaluation	2016
High-value fruits production project	Project risk management expert	2016
The popularization of Apiculture in Bangladesh	Project monitoring and evaluation	2015

8. Ag Tech validation trial and demonstration

As a primary role, an Upazila Agricultural Officer implements validation trial and demonstration of new Agricultural Technologies in farmers' field with farmer's management (recommended by researchers). The sustainability of the technology is evaluated critically for further dissemination. On the 'Field Day' of the demonstration, local farmers are invited to benefit from the new technologies. In this way, many new Ag Tech has been disseminated in the field. A few Ag Tech demonstrations and validations are listed below-

- Field trial of Zinc and vitamin A fortified rice varieties in the farmers' field
- Field trial of Aero phoni
- cs Technology for seed potato tuber production
- Demonstration of Fruit Bagging technology of banana, litchi, and mango
- Validation trial of Drought and submergence tolerant rice varieties
- Demonstration of BT brinjal (genetically modified) in the farmers' field
- Use of Nano Technology in orchard management
- Alternate Wetting and Drying (AWD) as a water-saving technology for dry season rice
- Field trial of drip fertigation in tomato and brinjal cultivation
- Demonstration of year-round homestead vegetable production
- Demonstration of mixed and relay cropping with major cropping pattern
- Field trial of Urea Super Granule (USG) for rice cultivation
- Field trial of summer tomato and summer onion
- Validation of Zero Tillage technology for the pulse and oilseed crop
- Demonstration of chemical-free vegetable cultivation
- Field demonstration of bio-fertilizers (rhizobium inoculum and tricho-compost)
- Demonstration of seed production technology
- Demonstration of exotic gladiolus and marigold varieties in the farmers' field

9. International Training and exposure visit

Training event/presentation/visit	Host organization/place	Year
Training on 'conflict management.'	Danish Institute of Human Rights, Copenhagen, Denmark	2011
Training on vegetable Postharvest systems and technologies	Postharvest Horticulture Training& Research Centre, University of the Philippines, Loss Benos	2013
Rice system for tomorrow	International Rice Research Institute (IRRI), Philippines	2013

Guided exposure visits in IRRI germplasm center, museum, and research field	International Rice Research Institute (IRRI), Philippines	2013
A guided tour in Costales Nature Farm	Majayjay Leguna, Philippines	2013
A guided tour in Glass House		2013
A guided tour in Quezon city cooperative farmer's market	Quezon City, Philippines	2013
A short presentation on Hydroponics	Institute of Plant Breeding, University of Philippines, Loss Benos	2013
Training on Project Management tools in a real-world scenario	Innovation and Enterprise, University of Bedfordshire, UK	2015
Training on career building, CV writing, and facing interview	Career and Recruitment, University of Bedfordshire, UK	2015
A guided tour in the Royal Botanical Garden	Royal Botanical Garden, Edinburgh, Scotland	2014
Guided exposure visits in a Tissue Culture Laboratory in Edinburgh	Royal Botanical Garden, Edinburgh, Scotland	2014

10. National training on Agricultural Technology and Management

Training event	Host organization	Year
Drought Management Technology	Bangladesh Institute of Nuclear Agriculture	2018
Precision Agriculture: challenges and opportunities in Bangladesh	National Agriculture Technology Academy	2017
Innovation in public service	Prime Minister's Office, Bangladesh	2017
Climate-Smart Agriculture Technology in Bangladesh	Bangladesh Agricultural University	2017
National e-Governance Procurement	National Academy of Planning and Development	2016
Advanced ICT Management	National Agriculture Training Academy	2016
Gender awareness and climate change adaptation	Second Crop Diversification Project (SCDP)	2013
Training on production and processing of High-value crops	Second Crop Diversification Project (SCDP) Department of Agricultural Extension	2012
Modern cultivation technology of fruits and vegetables	Second Crop Diversification Project (SCDP) Department of Agricultural Extension	2012
Training on commercial flower production and marketing	Second Crop Diversification Project (SCDP) Department of Agricultural Extension	2012
Modern Sugar crop technologies	Bangladesh Agricultural Research Council	2012
Climate change adaptation	Sher-E-Bangla Agricultural University	2012
Financial Management	National Agriculture Technology Project	2011
Training on Hybrid rice production	Bangladesh Rice Research Institute, Gazipur	2011
Seed technology	Central Extension Resource Development Institute	2010
Training on disease and insect management of fruits and vegetables	Bangladesh Agriculture Research Institute	2009
Foundation Training Course	Bangladesh Public Administration Training Centre	2006
Season Long IPM ToT Course	Integrated Pest Management Project, DAE	2008
Integrated Crop Management (ICM)	Department of Agricultural Extension	2008
Rice yield gap minimization	Bangladesh Rice Research Institute (BRRI)	2008

Production technology of high-value crops	Rural Development Academy, Bogra, Bangladesh	2007
Foundation Training Course for BCS officers	Bangladesh Public Administration Training Centre (BPATC), Savar, Dhaka	2006
Attachment Training Programme for BCS officers	Bangladesh Rural Development Academy, Bogra	2006
Jute seed production technology	Bangladesh Jute Research Institute	2005
Mushroom cultivation	Mushroom Development Centre, Savar	2005
Gender and Development	North-West Crop Diversification Programme	2005
Intercropping with Sugar crop	Bangladesh Sugar Crop Research Institute	2005
Production, processing, and postharvest technologies of fruits	North-West Crop Diversification Programme	2004
Training on Soil resource guidelines	Soil Resource Development Institute	2004

11. Training, Seminars, Symposium, Conference, and Workshop attended

As a member of the Bangladesh Civil Service, Md. Roushon Jamal attended many national level seminar, symposiums, conferences, and workshop

Year	Seminar, Conference, and Workshop
2022	Protein Futures – Innovative science and technology for today and tomorrow (14-15 Jun 2022), organized by CSIRO
2022	Nature Conservation Council Conference 2022
2021	Inter-state PhD conference 2021, Melbourne, Australia
2021	Postgraduate Conference 2021, University of New England, Australia
2021	International Graduate Student Conference 2021, USA
2020	Thirty-fifth Session of the Asia Pacific Regional Conference Organized by Food and Agriculture Organization (FAO) (Zoom)
2020	UNE Smart Farm, Life, Earth and Environment Seminar series
2020	National Seminar on Food Security Status in COVID 19 era (online event) Organized by Bangladesh Rice Research Institute (BRRI)
2020	Postgraduate Conference 2020, University of New England, Australia
2019	Postgraduate Conference 2019, University of New England, Australia
2018	National Seminar on drought management in North-Eastern Bangladesh Organized by BSRI, Pabna, Bangladesh
2017	International Conference on Sustainable Agriculture for food security Organized by Bangladesh Agricultural Research Institute, Gajipur
2017	National Seminar on Climate-Smart Agriculture in Bangladesh Organized by Sher-E-Bangla Agricultural University, Dhaka Bangladesh
2017	National Workshop on New Agriculture Extension Policy Jointly organized by the Ministry of Agriculture and FAO
2017	Regional Symposium on integrating nutrition and gender in Agril Extension Organized by USAID and KIB
2016	5 th National Convention and International Agriculture Conference Organized by the Krishibid Institution Bangladesh
2015	National Seminar on Nutrition Security and Vegetable Production in Bangladesh Organized by the Ministry of Agriculture and FAO
2013	Seminar on Export Promotion of Fresh and Processed Fruits from Bangladesh.

	Organized by Hortex Foundation, Bangladesh
2013	National Seminar on the potentials and challenges in vegetable export Organized by Hortex Foundation and Department of Agriculture Extension
2013	International Conference on Climate Resilient Technology Development and Extension for Sustainable Agriculture, organized by Bangladesh Agricultural University
2012	National Workshop on Production and Export of Fresh Fruits and Vegetables from Bangladesh: Opportunities and Challenges, organized by the Ministry of Agriculture
2008	National IPM Congress, organized by the Integrated Pest Management Project, organized by the Department of Agricultural Extension, Bangladesh
2005	National Agriculture Congress, organized by the Ministry of Agriculture

12. Skills and competence:

Skills	Description
Agronomic and Ag Tech skills	<ul style="list-style-type: none"> - Bio-control of insects, diseases, and rodent pest - Laboratory analysis of soil, fertilizers, and pesticides - Hybridization and crossing for varietal improvement - Plant disease diagnosis and management - Irrigation and water management - Soil sampling, analysis, and fertilizer recommendation - Orchard planning, design, and management - Floriculture and ornamental horticulture
Regulations and control	<ul style="list-style-type: none"> - Inspection, seize, and destroying date expired agro-chemicals - Licensing and registration of pesticides and fertilizers - Mobile court operation -Monitoring and control of import, stock, distribution, and sale
Research skills	<ul style="list-style-type: none"> - A field experiment with replication and treatment - Qualitative and quantitative data collection - Crop modeling and Climatic research
Analysis skills	<ul style="list-style-type: none"> - Microsoft excels, SPSS, EnVivo - R studio - Econometric analysis - Machine learning

13. Professional membership and organizational affiliation

Professional organization	Status
Agronomy Australia	General member
Land care Australia	General member
Krishibid (Agriculturist) Australia	General member
Krishibid (Agriculturist) Institution, Bangladesh (KIB)	General member
BCS (Agriculture) Association, Bangladesh	Member
Krishibid (Agriculturist), Australia	Member
DANIDA Alumni Association	Member
University of Bedfordshire Alumni Association	Member
Bangladesh Agricultural University Alumni Association	Member

14. Referee

Dr. Paul Kristiansen (Principal supervisor of my PhD)

Associate Professor of Agricultural Systems

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To the best of my knowledge, the information, as mentioned above, is accurate.



24.06.2025

(Md Roushon Jamal)