**ACADEMIC CV**

**Prof. Dr. Syed Javaid Khurshid**
Science Policy Expert • Science Diplomat • Science Communicator

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Dublin-3 D03 X3 W8, Dublin, Ireland 2) House No 87, St 8, Sector J, DHA-2,Islamabad, Pakistan |

**Executive Profile**

Internationally recognized Science Policy & Communication Expert. Currently **Cooridinator, STI Policy Research Centre, Consultant, Science Communication & Diplomacy OIC-COMSTECH,** and **Editor-in-Chief, Journal of Science Communication and Diplomacy.** With 40+ years of leadership experience in nuclear science, climate change, energy transition, Nuclear knowledge management, biotechnology, and strategic studies. Former Director of Biosciences & Director General Projects (PAEC), with extensive project management and nuclear knowledge management experience, overseeing large-scale Nuclear, health, and biotech initiatives. Advisor to governments & international organizations on science diplomacy, CBRN, climate action, and nuclear energy. Author/editor of 6 monographs and 85+ peer-reviewed publications

**Education & Training**

* **Ph.D. Bioinorganic & Radiopharmaceuticals**, University of Punjab, Lahore (1993)
* **M.S. Biochemistry**, Ball State University, Indiana, USA (1977)
* **M.Sc. Organic/Industrial Chemistry**, University of Karachi (1973)
* **B.Sc. (Hons) Chemistry**, University of Karachi (1972)

**Specialized Training (IAEA, WHO, Govt. of Pakistan, UNDP)**

* Project Management, Evidence-Based Policy, Climate Change MRV Systems, Nuclear Infrastructure Development, Financial/Economic Analysis of Projects, Radiation Sterilization, Biosafety & Biosecurity, and Change Management.

Key Skills & Expertise

* Science Policy & Innovation Strategy
* Science Communication & Diplomacy
* Climate Change Governance & Net Zero Pathways
* (Nuclear Knowledge Management & CBRN Issues
* Project Planning & Strategic Development Energy, Health, S&T)
* Academic Research & Higher Education Leadership

**Professional Experience**

**Coordinator, STI Policy Research & Innovation Centre (STIC), COMSTECH (OIC)**
*2020–Present*
Leads OIC-wide initiatives in science policy, diplomacy, and capacity building. Coordinates regional research programs and advises OIC leadership on science-based development and climate resilience.

**Consultant, Science Communication & Diplomacy, OIC-COMSTECH**
*2018–Present*
Designs and implements frameworks for science diplomacy, enhancing cross-border cooperation in agriculture, health, and climate change across OIC member states.

**Editor-in-Chief, Journal of Science Communication & Diplomacy (COMSTECH/MoFA)**
***2021–Present***
Founding editor shaping scholarly discourse on science policy, communication, and global cooperation.

**Director Biosciences & DG (Projects), PAEC,*1999–2015***
Directed biosciences across **24 institutes** specializing in nuclear medicine, biotechnology, and agriculture. Oversaw national cancer treatment facilities, biotech labs, and major PSDP science projects. As DG (Projects), managed Pakistan’s nuclear energy and infrastructure portfolio.

**Advisor/Consultant, PAEC Chairman Secretariat, *2015–2017***Provided strategic oversight on nuclear knowledge management, biosciences, and STI policy implementation.

**Senior Research Fellow, CISS, Nuclear Knowledge Management, *2017–2022***Research and advocacy on nuclear diplomacy, peaceful applications of atomic energy, and compliance with CWC/BWC.

**Academic & Teaching Roles**

* Visiting Professor, **Strategic Studies Dept., National Defence University (NDU), Islamabad**
* Visiting Professor, **International Center for Chemical & Biological Sciences (ICCBS), Karachi**
* Adjunct Faculty, **Pakistan Institute of Engineering & Applied Sciences (PIEAS)** – Nuclear Knowledge Management
* Adjunct Faculty, **MAJU Islamabad** – Biochemistry & Drug Development
* Visiting Faculty, **University of Health Sciences, Lahore** – Biomedical Engineering
* HEC-Approved **PhD Supervisor**, Higher Education Commission, Islamabad
* **Major National Projects (Planning & Development) (Annexxure-I)**

**Energy Sector**

* Led feasibility, land acquisition, and execution for **Chashma NPPs (C-3, C-4)**, **Karachi Coastal NPP (K-1, K-2)**, and multiple nuclear energy sites.
* Engaged in nuclear desalination and renewable energy–nuclear hybrid studies.

**Health Sector**

* Established **9 new cancer hospitals** across Pakistan.
* Upgraded nuclear medicine facilities at NORI (Islamabad), GINUM (Gujranwala), INMOL (Lahore), and others.
* Introduced **PET-CT and Cyclotron technologies** for advanced oncology care.

**Science & Technology Sector**

* Founded **Plasma Research & Applications Labs, NILOP**, and **Quantum Devices Lab**.
* Advanced collaboration with **CERN and ICTP**.
* Launched biotech and food/agriculture innovation projects, including genetic disease screening and radiation sterilization technologies.

**Editorial & Scientific Service**

* **Editor-in-Chief**, *Journal of Science Communication & Diplomacy* (COMSTECH/MoFA)
* **Associate Editor**, *Journal of Pioneering Medical Sciences* (USA)
* **Editorial Boards:** *Journal of Bioterrorism & Biodefense (USA)*, *Journal of Security & Strategic Analyses*, *INSIGHT CISS*
* **Advisory Board Member**, *Global Affairs International Magazine* (20+ countries)
* **President**, Pakistan Nuclear Society (2016–2018)

**Memberships & Professional Networks**

* **Chairperson**, International Board of Collaborative Research, **Research Minds**
* Fellow & Life Member, **Pakistan Nuclear Society**
* Fellow & Life Member, **Chemical Society of Pakistan**
* Member, **New York Academy of Sciences**
* Member, **Pakistan Pharmacological Academy**
* Member, **Pakistan Biosafety Association**
* Founder Member, **Friends of ICTP, Trieste, Italy**
* Secretary, **National Environmental Management System (NEMS), IIASA Vienna**

**Honors & Recognition**

* Listed in *Who’s Who in Science & Technology* and *Outstanding Intellectuals of the 21st Century*
* Recognized as *International Scientist of the Year*
* Distinguished Fellowships in Nuclear and Chemical Societies of Pakistan
* National awards for contributions to biosciences and STI policy leadership
* **Books & Monographs (Highlights)**
* *Atoms of Ambition: Unveiling Pakistan’s Nuclear Narrative* (in press, 2024)
* *Peaceful Uses of Nuclear Technology – Pakistan’s Little-Known Story* (2024)
* 6 Monographs on **BWC/CWC implementation & challenges, Science Communication in OIC Countries, Agriculture & Climate Change** (2018–2024)
* **Publications & Academic Impact (Annexure-II)**
* **85 peer-reviewed papers** (impact factor >250) **6 monographs**, **30+ articles**, **16 reports**
* **Google Scholar Citations:** 623
* **ResearchGate Index:** 260

**Keynote Lectures & Conferences**

* **200+ invited lectures** globally on nuclear knowledge management, science diplomacy, climate change, and emerging technologies.
* Organized **35 international/national seminars & colleges**.
* Participated in **280+ international conferences & workshops**.

**Summary of Global Engagement**

Trusted **science diplomat and educator** with enduring impact on science policy, nuclear strategy, climate change governance, and biotechnology innovation. Active across **OIC, UN, IAEA, WHO, and IIASA networks**, combining scientific expertise with policy leadership to advance sustainable development goals and peace through science.

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| **(Annexure-I)** |
| **Project Planning & Development** |

**Projects prepared, got approved, coordinated, monitored, & Evaluated.**

1. **Energy Sector**
	1. Acquisition of Land Development of some Basic Facilities and Detailed Studies of Nuclear Power Plant Project Site, Muzaffargarh (Rs. 1679 million)
	2. Karachi Coastal Power Project (K-1 & K-2) (Rs. 958 billion)
	3. Chashma Nuclear Power Projects (C-3/ C-4) (Rs. 89918 million)
	4. Development of Project Team for Site Development & Installation of 2x300MWe & 1x1000 MWe NPPs Karachi (Rs. 364 million)
	5. Acquisition/ Development of Land and Construction of Office Building and Accommodation of NP Supplier of KANNUP Unit-2 (K-2) Project (Rs. 1609 million)
	6. Up-gradation of KINPOE Infrastructure Karachi (Rs. 434 million)
	7. Up-gradation of CHASCENT- Kundian (Rs. 558 million)
	8. Survey & Feasibility Study for Twin Units of Nuclear Power Plants (K-2 & K-3)
	9. Chashma Nuclear Power Project (C-2), Mianwali (Rs. 51206 million)
	10. Nuclear Desalination Demonstration Project (Rs. 291 million)
	11. Joint Pre-Project Feasibility & Design Study of a 1000 MW Nuclear Power Plant for Karachi (Rs. 995 million)
	12. Acquisition of Land Development of some Basic Facilities and Detailed Studies of Nuclear Power Plant Project Site, Swabi (Rs. 3000 million)
	13. Acquisition of Land Development of some Basic Facilities and Detailed Studies of the Nuclear Power Plant Project Site, New Ghazi Brotha (Rs. 3000 million)
	14. Acquisition of Land Development of some Basic Facilities and Detailed Studies of Nuclear Power Plant Project Site, Sukkur (Rs. 2350 million)
	15. Acquisition of Land Development of some Basic Facilities and Detailed Studies of Nuclear Power Plant Project Site, Ahmedpur (Rs. 2169 million)
	16. Acquisition of Land Development of some basic Facilities and Detailed Studies of Nuclear Power Plant Project Site, Qadirabad (Rs. 2949 million)
2. **Science & Technology Sector**
3. Plasma Research & Applications Laboratories (Rs. 718 million)
4. Development of High Energy Physics in Collaboration with CERN (Rs. 838m)
5. Development of Probiotic Laboratory (Rs. 128 million)
6. Establishment of Projects Monitoring and Evaluation Cell (PMEC) (Rs. 20 million)
7. International Center for Theoretical Physics (Rs. 30 million)
8. Research and Fabrication of Quantum Devices (Laser Diode) PINSTECH (Rs. 196 m)
9. Establishment of the National Institute of Lasers and Optronics (NILOP) (Rs. 735 million)
10. Development of advanced polymer materials (Rs. 181 million)
11. Production of Molybdenum-99 for Medical Use (Rs. 212 million)
12. Pediatric Hematological Malignancies Unit at INMOL (Rs. 34 million)
13. Pakistan IIASA Collaboration (Rs. 68 million)
14. Screening and Prevention of Genetic Diseases in the Pakistani Population (Rs 25 m)
15. EO-Microbial Prospecting of Pakistani Coals for Methane Production (Rs39 m)
16. Application of Biotechnology for Improvement of Health and Production in Livestock and Poultry (Rs. 53 million)
17. Up-gradation/ Extension of PINSTECH Labs (Phase-II) (Rs. 1748 million)
18. Centre for Earthquake Studies (CES) (Rs. 146 million)
19. Cloning of Cellulose Gene(s) for Ethanol Production from Plant Biomass, NIBGE, Faisalabad (Rs. 66 million)
20. Enhancement of NCNDT Capacity for Non-Destructive Evaluation (NDE) of Concrete Structures (Rs. 90 million)
21. Engineering Design Organization EDO Phase-I (Rs. 362 million)
22. Up-gradation of NIA, Tandojam (Rs. 504 million)
23. Up-gradation & Strengthening of Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad (Rs. 276 million)
24. New Mineral Survey Scheme (Phase-VI) Lahore (Rs 1085 million)
25. MPB-2 Shanawa Uranium Mining Project, Karak (Rs 3348 million)
26. MPS-3, Taunsa-2 ISL Uranium Mining Project, D.G Khan (Rs. 2387 million)
27. New Mineral Survey Scheme (NMSS) Phase-V, Lahore (Rs. 625 million)
28. **Health Sector**
29. Up-gradation of NORI, Islamabad (Rs. 227 million)
30. Gujranwala Institute of Nuclear Medicine & Radiotherapy GINUM Phase-I
31. Up-gradation of Nuclear Institute for Food & Agriculture (NIFA), Peshawar (Rs 213 million)
32. Up-gradation of Atomic Energy Medical Centre, Karachi (Revised) (Rs. 602 million)
33. Up-gradation of Diagnostic and Therapeutic Facilities at INMOL (Rs. 378 million)
34. Benazirabad Institute of Nuclear Medicine & Radiotherapy (Rs. 770 million)
35. D.I. Khan Institute of Nuclear Medicine & Radiotherapy (Rs. 628 million)
36. Swat Institute of Nuclear Medicine & Radiotherapy (Rs. 705 million)
37. Nilore Complex Hospital, Islamabad (Rs. 40 million)
38. Installation of PET-CT and Cyclotron at INMOL (Rs. 439 million)
39. Digital Radiotherapy Simulator (NORI) (Rs. 49 million)
40. Bannu Institute of Nuclear Medicine & Radiotherapy (Rs. 740 million)
41. Up-gradation of CENAR Quetta (Rs. 823 million)
42. Equipment for Up-gradation of Radiotherapy Treatment Facilities at the Institute of Radiotherapy & Nuclear Medicine (IRNUM) (Rs. 297 million)
43. Upgradation of Larkana Institute of Nuclear Medicine & Radiotherapy (Rs 447m)
44. Extension of INOR, Abbottabad (Rs. 145 million)
45. Up-gradation of MINAR, Multan (Rs. 896 million)
46. Provision of Equipment for Nine PAEC Cancer Hospitals (Rs. 995 million)
47. Radiotherapy & Oncology Facilities (Phase-I), Mardan Institute of Nuclear Medicine Oncology & Radiotherapy (Rs. 410 million)
48. Development of Medical Application Linear Accelerator (MALA) (Rs. 769
49. Institute of Nuclear Medicine Oncology and Radiotherapy, Gilgit (Rs. 2346 million)
50. Installation of PET-CT and Cyclotron at INMOL (Rs. 439 million)

64. Nilore Complex Hospital, Islamabad (Rs. 40 million)

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| **Annexure-II** |
| **Research Projects** |

Co-supervised 5 Research MPhil Projects (1991-1999)

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| **Annexure-III** |
| **List of Books/ Monographs/Publications** |

**Books:**

1. **Dr. Syed Javaid Khurshid** (editor): **Peaceful Uses of Nuclear Technology – Pakistan’s Little-Known Story** (Final draft Submitted To Printer), 2024.

**Monographs:**

**08.** Mirza Aleem Baig, Muhammad Arif Goheer**, and Dr. Syed Javaid Khurshid**,  **Science Communication and Diplomacy in Health and Its Importance in OIC Member States**. SC&D SERIES-4, ISBN: 978-969-025-1 **/**2025 **(in Press).**

.07. Sayyed Paras Ali & **Prof. Dr. Syed Javaid Khurshid (editor): Importance of Science Communication in Agriculture-Enhancing Agriculture Impact in OIC Countries**, SC&D Series -1 ISBN:978-969-487-025-0/2024**.**

**06. Prof. Dr. Syed Javaid Khurshid** Hina Ali Mustafa, & Muhammad Arif Goheer **(editor): Addressing Climate Change through Effective Science Communication in the OIC Member States.** SC&D SERIES-2,ISBN: 978-969-025-1 /2024.

1. Sayyed Paras Ali & **Prof. Dr. Syed Javaid Khurshid (editor): Importance of Science Communication in Agriculture-Enhancing Agriculture Impact in OIC Countries**, SC&D Series -1 ISBN:978-969-487-025-0/2024**.**
2. **Dr. Syed Javaid Khurshid** (editor**): Chemical Weapon Convention; Past, Present, and Future. WMD Series-4**. May 2021 ISBN No 978-969-23235-7-4/2021.
3. **Dr. Syed Javaid Khurshid** (editor)**: Biological Weapon Convention; Past, Present & Future WMD Series-3**. Feb 2021, ISBN No 978-969-23235-6-7/2021.
4. **Dr. Syed Javaid Khurshid** (editor). **Biological Weapon Convention: Implementation & Challenges.** WMD Series-2, Sept 19, 2018, Isld. ISBN 978-969- 4-3/2018.
5. **Dr. Syed Javaid Khurshid (editor**). **Chemical Weapon Convention; Implementation & Challenges** WMD. Series-1 May 15th, 2018, Islamabad ISBN:978-969-23235-3-6/2018.

**Publications:**

85. **Andrabi, T. H. & Khurshid, Syed Javaid**

Enhancing Global Cooperation Research, Development, and Policy Making Through Science Diplomacy: Challenges and Strategies. Journal of Science Communication and Diplomacy. Page 6-12, Vol 1, Issue 2,2024.

84. **Abdul Rashid and Khurshid, Syed Javaid.**

Enhancing Pharmacovigilance to Prevent Adverse Events in OIC Member States. Journal of Science Communication and Diplomacy. Page 44- 49, Vol 1, Issue 2,2024.

83. **Ahmed Aleem, Sayyed Paras Ali, Khurshid, Syed Javaid**

Science Communication and Science Diplomacy in Pakistan: What Went Wrong Journal of Science Communication and Diplomacy, Vol 1,1, 2024

82. **Khurshid, Syed Javaid.**

Sustainable Energy Transition- Strategies for Pakistan's Shift Towards Renewable Resources & Energy Efficiency. Hilal English (Hilal.Gov.pk) Page 40-44, April 2024

81. **Khurshid, Syed Javaid**

Communicating Climate Change, GIZ/CITEPA/GCISC, Three days’ “**Climate Transparency Forum and technical workshops”** September 19 – 21, 2023, Marriott Hotel, Islamabad.

80. **Khurshid, Syed Javaid**

 GIZ, CITEPA & GCISC One-day Development of Monitoring, Reporting and Verification system in Pakistan – Chaired F-Gas Session on September  20, 2023, at Marriott Hotel Islamabad

79. **Khurshid, Syed Javaid**

 GCISC/MoCC/EC four-day training workshop on “**National GHG Inventory Management and MRV System**” held on 4th – 7th September at Islamabad

78**. Khurshid, Syed Javaid.**

Nanotechnology Developments – Safety and Security. CBNW London, United Kingdom, July 7 /2022,

**77** Khurshid, Syed Javaid**.**

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76**. Khurshid, Syed Javaid,**

 Yum-e-Takbir- the Day of Greatness, June Global Affairs

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**67. Khurshid, S. J.**

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66. **Khurshid, S. J.**

COVID-19 Crises and Future of Sustainable Development Goals**. Strafasia**, June 19, 2020

65 **Khurshid, S. J.**

COVID-19 Pandemic & Pakistan’s Long-Term Energy Outlook. Hilal(ISPR), p23-25, May 2020.

64 **Khurshid, S. J.**

Global Structure of Nuclear Energy and the Revival of Nuclear Power. **Hilal (ISPR Journal**), Volume 57, April (issue 4), 2020.

63 **Khurshid, S. J.**

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62. Khurshid, S.J.

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Nuclear Knowledge Management –Pakistan’s Scenario Journal of Management Studies, December 2018,

59**. Khurshid, S. J.**

Small Modular Reactors (SMRs) - A Future Nuclear Power Option CISS INSIGHT, Vol 6, No 2, 2018. Islamabad

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Nuclear Techniques for Sustainable Development Goals—Pakistan’s Perspective**.** Journal of Management Studies (ISSN 2328-2185, USA), USA

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57**. Khurshid, S. J.**

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56. Hussain, S. S, and **Khurshid, S.J.**

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55. **Khurshid, S. J.**

**Chemical Weapons Convention Implementation Challenges**

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54. **Khurshid, S. J.**

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