




Short CV: Dr. Shafiqur Rehman

Research Engineer II IRC-SES, KFUPM, Saudi Arabia

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| H-Index: 71 | Citations: 21,000 | i10-index: 221

SUMMARY

Over 35 years of experience in renewable energy systems, photovoltaics, hybrid power systems design and optimization, wind and solar PV powered desalination and hydrogen production, resource assessment, meteorological measurements using wind masts and LiDARS, windy and solar sites selection. Listed among the World's Top 2% Scientists (Stanford/Elsevier 2023–2025). Experienced in project management, academic leadership, and technology commercialization.

KEY EXPERTISE

- Renewable & Sustainable Energy Systems (Meteorological measurements, offshore and onshore wind power assessment, Ground and roof top PV, Floating PV, Agrivoltaics, smart agriculture, PV panel monitoring using drones and AI based diagnosis)
- Thermoelectric & Thermal Energy Storage | Nanofluids & PCM
- Prototyping | Lab to Market Product Development | Commercialization
- Smart Energy Systems | AI Forecasting | Energy Auditing
- Project Planning | Research Supervision | Academic Mentorship | Teaching
- PhD and MS Theses Supervision

EDUCATION

Ph.D. Mechanical Engineering (Wind Power), University of Pretoria, Pretoria, South Africa (2012)

M.E. Mechanical (Thermal Sciences), King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia (1985)

B.E. Mechanical Engineering, Aligarh Muslim University, India (1981)

CAREER

- Research Engineer II / Associate Prof., IRC-SES, KFUPM, Saudi Arabia (2005–Present)
- Research Engineer III / Assistant Prof., IRC-SES, KFUPM, Saudi Arabia (1999–2005)
- Engineer I / Lecturer, CER, KFUPM, Saudi Arabia (1991–1999)
- Engineer II / CER, KFUPM, Saudi Arabia (1986–1991)

Fellowships

- Research Assistantship / King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia (1983-1985)

ACHIEVEMENTS

- 14 U.S. Patents
- 260 SCIE Journal Publications (133 Q1; 64 Q2)
- Total Client Funded Research Grants: USD 25,333,500 for 28 projects
- Total KASCT Funded Research Grants: USD 2,733,500 for 6 projects

- Total Internally Funded Research Grants: USD 746,600 for 28 projects
- 5 International Awards including Two Gold Medals at Geneva Convention 2012 and 2025
- Academic/Guest Editor, Reviewer of 450+ Papers, and Conference Speaker
- BOOK (1); BOOK CHAPTERS Elsevier, Springer, CRC Press (8 Chapters, 2014–2024)
- Member: SESI (IND), ISES (Germany)

SOFTWARE & TOOLS

Windographer | WindFarm | WindFarmer | HOMER Pro | RetScreen | MS Office