prof. Adam M. Paruch

NIBIO - Norwegian Institute of Bioeconomy Research

Prof. Dr. Eng. Adam M. Paruch is a distinguished researcher with significant contributions in environmental development, land reclamation, and environmental protection. He holds a PhD in environmental development, an MSc in land reclamation and environmental protection, and a BSc in environmental engineering.

Research Interests and Key Qualifications:

- Ecological Engineering
- Ecosystem Services
- Microbial Diversity
- Aquatic Ecosystems
- Quality Assessment of Water (surface, drainage, groundwater, and runoff)
- Microbiology of Water, Wastewater (white-, grey-, black-, brown-, and yellowwater), Treatment Filter Media, and Compost Material
- Fecal Water Contamination (anthropogenic and zoogenic) from Various Point and Nonpoint/Diffuse Pollution Sources
- Microbial/Fecal Source Tracking (E. coli, Bacteroidales DNA Markers, Host-Specific Genetic Markers, RT-qPCR)
- Microbial and Molecular Analyses of Pathogens, Gram-Negative/Positive Bacteria, Viruses, and Parasitic Protozoans
- Natural Systems for Water and Wastewater Management and Purification
- Wastewater Reclamation and Reuse

Professional Appointments:
Throughout his career, Professor Paruch has held academic and research positions at various esteemed institutions. He has served at the Agricultural University of Wroclaw (currently, Wroclaw University of Environmental and Life Sciences) in Poland, the Agricultural University of Norway (currently, Norwegian University of Life Sciences), Jordforsk – Norwegian Centre for Soil and Environmental Research, and Bioforsk – Norwegian Institute for Agricultural and Environmental Research. He currently holds the position of Research Professor at NIBIO – Norwegian Institute of Bioeconomy Research.

Professor Paruch's extensive research and academic contributions have made him a leading figure in his field, particularly in the study and management of water quality and wastewater treatment. His work in microbial and molecular analyses, as well as natural water management systems, continues to influence and advance the field of environmental engineering and protection.