

Curriculum Vitae

Eliet Veliz Lorenzo

Hydraulic Engineer (1996). Technological University of Havana "José Antonio Echeverría". Cuba
PhD. Technical Sciences (2010). Faculty of Chemical Engineering. Technological University of Havana.

Assistant Researcher and Biotechnologist- Level I.

Head of Equipment and Technology Development Group. R+D+i Direction.

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Professional experience

- Research, development, and installation of ozonation technologies for the treatment of water, wastewater and solid waste, in various socio-economic objectives: Water bottling plants, Hospitals, Clinics, Hotels, Swimming pools, Laundries, Food industry and Agroindustry, Pharmaceutical industry, Landfill leachates, among others.
- Treatment technologies application for the reuse of industrial wastewater for process water, municipal wastewater for agricultural irrigation, laundry wastewater, and agro-industrial wastewater. Combination of technologies that include ozonation, coagulation-flocculation, sand filtration, anthracites, zeolites, activated carbon, and biological treatments.
- Participation in research on the ozonation of substrates from oily natural sources to obtain active principles for the production of medicines.
- Research related to the application of ozone as bleaching agent for clarified liquors in sugar mills to obtain refined sugar.
- Research for the disinfection and preservation of fruits and vegetables. Elimination by ozonation of pesticides in fruits.
- Treatment technologies for the disinfection of premises, cold rooms and contaminated environments.
- Treatment technologies to obtain high-quality water for the pharmaceutical industry, use in hospital operating rooms, clean rooms, vivarium and laboratory animal production centers.
- Research and development of domestic, industrial and medical ozonation equipment.
- Design, construction, and evaluation of a solar dryer for vegetable mass with an ozonation disinfection system.
- Participation in five national research projects (three as project manager) and six international projects (Mexico, Venezuela and Spain).
- Participation in four research stays at the Autonomous University of Sinaloa, Mexico (2004-2010) and two research stays at the University of Cádiz, Spain (2016-2018).
- Teaching water treatment courses to national and international professionals (Conferences in Master's Degrees from the University of Mexico and Spain).
- Technical consulting to companies specialized in ozonation issues in Mexico and Spain.
- Tutoring of several diploma and master's degree theses at the Technological University of Havana and the University of Mexico.
- Author of 38 national and international publications in recognized journals, and two book chapters published by editorials in Singapore and Spain.
- Author of a patent and six national health registrations and licenses.
- Obtaining Awards at the Provincial (2010) and National level of the Cuban Academy of Sciences (2021 and 2022).
- Member of the expert group of the Commission of Equipment, Furniture, and Medical Devices of the BIOCUBAFARMA Enterprise Group.