

CURRICULUM VITAE (CV)

- 1. Current Position:** Senior Instructor and Associate Researcher
- 2. Name of Firm:** Institute of Environmental and Water Studies, Birzeit University, P.O. Box, 14, Birzeit, Palestine. Work: +972 2 298 2120; Mobile: +972 599999 820
E-mail: rsaed@birzeit.edu; rashed.alsaed@gmail.com
- 3. Name of Staff:** Rashed AL-SA'ED
- 4. Date of Birth:** November 16, 1958
- 5. Nationality:** Palestinian/German
- 6. Education:** Dr.-Eng., M.Sc., B.Sc.

Institution [Date from - Date to]	Degree(s) obtained
Technical University of Braunschweig, Germany (1983-87)	Dr.-Eng. in Sanitary and Environmental Engineering
The University of Jordan, Amman, Jordan (1981-1983)	M.Sc. in Environmental Microbiology
The University of Jordan, Amman, Jordan (1977-1981)	B.Sc. in Biology, Studies of Biological Sciences

7. Membership of Professional Associations:

- Jordan Engineering Association, Jerusalem Branch, Palestine
- German Engineers Association (VDI), Bonn, Germany
- Int. Scholar Journal's Editorial Board Membership: Desalination & Water Treatment (e.g.)
- Palestinian Green Building Council (PGBC), Al-Bireh/Ramallah, West Bank, Palestine
- German Association for Water & Waste Management (ATV/DWV), Hennef, Germany
- German Alumni Water Network (GAWN), Siegen, Germany
- MED-REUNET/Mediterranean Network on Wastewater Reclamation and Reuse, Spain
- Palestinian Institute for Standards (PSI), Committee "Water & Wastewater Rules & Regulations]"
- Palestinian Water Authority (PWA), Member in the JWC & sub-technical group, Palestine
- Environmental Quality Authority (EOA), Committee "National Solid Waste Management Strategy"
- Water Supply and Sanitation Collaborative Council (WSSC), USA
- Accredited Environmental Arbitrator, Palestinian Ministry of Interior, Palestine

8. Key qualifications

- Excellent experience in teaching and research in 3 M.Sc. programs, courses in water and wastewater engineering, BNR, low cost eco-sanitation, biosolids and reclaimed effluent recycling, environmental quality management, pollution prevention, pollutants transport & fate, environmental biotechnology, biofilters, climate change adaptation, water resources development, effluent reuse and desalination, membrane processes (MBBR, IFAS, MBR, RO), transboundary wastewater management, cleaner production and bioremediation, EIA & SEA studies, courses development, building capacity & public awareness programs.
- Extensive practical experience in engineering process layout, design and simulation for water, sanitation, and landfills facilities, process monitoring and evaluation, centralized and Eco San systems, MBR systems for municipal & industrial wastewater treatment and effluent reclamation, composting, recycling, landfill design, feasibility & EIA studies, lab testing and data compile of water, wastewater and solid waste streams.
- Solid expertise in project management regards human relations and communication skills, more than 30 years of progressively professional experience in water and environmental fields with emphasis on project management, evaluation and EIA studies, applied research and capacity building in water, sanitation and waste, management of water and sanitation facilities, technical advice and community service.
- International business development, networking and cooperation in Jordan, Germany, Egypt, Tunisia, The Netherlands Gulf states, and Palestine, appraisal, development and writing of R&D proposals, feasibility studies and fund raising for education, research, training and building capacity, video conference facilitation, translation, preparation of tender documents and reports writing.
- Technical advisor for national authorities and international agencies on strategic planning, training and feasibility studies for water, waste and sanitation facilities, HRD, national strategies for wastewater and biosolids management, and socio-economic studies, desalination, active member in national committees and international agencies, networking with stakeholders in water, sanitation and environmental sectors.

9. Countries of Work Experience:

Country	Date from - Date to
Jordan	October 1981- September 1983
Germany	October 1983-September 1996
Palestine	Since August 1996 to present

10. Other skills

- WWTP design programs: ASIM modelling, DENNI, ANAWin, Aqua Designer, Aqua Aero, POND, SANIX, WAWTTAR, Process simulation for pollutants transport and fate, climate change impacts
- Landfill modelling: HELP program for leachate evaluation
- Text processing programs: Windows, M.S. Office Package

11. Languages

Language	Speaking	Reading	Writing
Arabic [<i>mother tongue</i>]	Excellent	Excellent	Excellent
English	Excellent	Excellent	Very Good
German	Excellent	Excellent	Good

12. Employment Record

From: 09/1998: To present

Employer: Birzeit University (BZU), PALESTINE and Self-employed Consultant

Positions held: **Senior Instructor and Associate Researcher** in sanitary and environmental engineering including water and wastewater management; reuse of reclaimed water and biosolids; cleaner production; feasibility and EIA studies, waste management; training consultant for local and international development NGOs and funding agencies, technical advisor for governmental institutions, engineering firms and NGOs.

From: 08/1996 To: 08/1998 AND From 01/2009 To 09/2010

Employer: Palestinian Water Authority, PALESTINE

Positions held: **Senior Technical Advisor/Agency for International Cooperation (GIZ)**

From: 02/1995 To: 07/1996

Employer: Acerplan GmbH-(German Branch of Welsh Water/Hyder Ltd.), Halle/Saale, GERMANY

Positions held: **Project Manager**

From: 07/1990 To: 01/1995

Employer: Dr. Sonnenburg Ingenieurbüro GmbH, Giessen, GERMANY

Positions held: **Office Deputy Head/Project Manager**

From: 11/1988 To: 06/1990

Employer: FAL Federal Institute of Technology, Institute of Sanitary & Environmental Engineering/TU Braunschweig, GERMANY

Positions held: **Researcher/Co-Mentor for M.Sc. Students in Environ. Engineering**

From: 10/1983 To: 10/1987

Employer: TU Braunschweig, DAAD Scholarship, Ph.D. student, Braunschweig, GERMANY

Positions held: **Ph.D. student/researcher/instructor/trainer**

From: 10/1981 To: 09/1983

Employer: Qattan Medical Sciences, Amman, JORDAN

Positions held: **Sales Manager**

13. Tasks Assigned	14. Work Undertaken that Best Illustrates Capability to Handle Tasks Assigned
Engineering and/or Environment Training R&D	<p><i>Name of assignment or project: Heavy Metals Effects on Membrane Bioreactors [MBRs]: Process performance and biofouling potential</i></p> <p><i>Year: 07/2014 – 02/2016</i></p> <p><i>Location: Palestine/Netherlands</i></p> <p><i>Client: Netherlands Representative Office [NRO], Palestinian-Dutch Academic Cooperation Program on Water</i></p> <p><i>Main project features: This research project aimed at understanding the influence of wastewater characteristics [heavy metals] and operational parameters [sludge filterability] on lab and full-scale MBR systems. A lab-scale MBR system will be operated and monitored for 12 months, where 3 M.Sc. students will work on thesis research. Assess environmental impacts with mitigation measures for the developed biogas system, public outreach, training workshops and upgrading of current teaching materials are crucial to endorse advanced wastewater treatment technologies to protect public health and secure multifunctional uses of reclaimed water.</i></p> <p><i>Positions held: Principle Investigator (PI) and Project Team Member (TM)</i></p> <p><i>Activities Performed: Collect data on wastewater characteristics including heavy metals at four urban sewage works; Identify and understand the potential of heavy metals on biofouling pertinent to sludge properties under variable operational conditions; understand the filterability influence of different sludge types on the sustainable operation of MBR system considering MLSS content, sludge age, F/M ratio and membrane permeation..</i></p>
Engineering and/or Environment Training R&D	<p><i>Name of assignment or project: An Innovative Bioreactor for the Denitrification of Nitrate-Rich Brackish Groundwater Using Whey</i></p> <p><i>Year: 10/7/2014 – 10/05/2015</i></p> <p><i>Location: Palestine</i></p> <p><i>Client: Faculty of Higher Education, BZU Research Program.</i></p> <p><i>Main project features: The research study entails construction of an anaerobic digester at a small-scale to produce biogas from poultry manure as an energy source for farms heating, environmental impacts of developed system. Solar-driven anaerobic reactor using thermophilic anaerobic digestion for high biogas production at affordable price.</i></p> <p><i>Positions held: Principle Investigator (PI) and Main Supervisor</i></p> <p><i>Activities Performed: Using poultry manure as a feed, the anaerobic digestion will produce biogas as energy source and fertilizer. For this purpose, a pilot-scale anaerobic digester will be designed and constructed, where process control and monitoring will be made to verify the feasibility of this treatment technology. Chemical analysis for the raw manure with proper C:N:P ratio, produced biomass and biogas will be performed at BZU central labs, start-up phase and steady state conditions are monitored and controlled.</i></p>
Engineering and/or Environment Training R&D	<p><i>Name of assignment or project:</i></p> <p><i>Year: 15/03/2014 – 15/03/2015</i></p> <p><i>Location: Palestine</i></p> <p><i>Client: Faculty of Higher Education, BZU Research Program.</i></p> <p><i>Main project features: Local innovative design and low-cost bioremediation technologies utilizing the biological denitrification process are specially needed in developing countries like Palestine. The aim of this research study is to design and operate a lab-scale denitrification system, a slurry bioreactor, to remove nitrate using whey as a low-cost external carbon source for the heterotrophic denitrifiers.</i></p>

	<p><i>Positions held: Principle Investigator (PI) and Main Supervisor</i></p> <p><i>Activities Performed: The effectiveness of the slurry bioreactors in batch and continuous flow modus will be investigated under variable organic and inorganic volumetric loads. Process performance data from the lab-scale studies will be analysed and cost information on the system developed will be also estimated to provide a technical and economic comparison with desalination technology. The results obtained will assist water utilities and decision makers in opting for environmentally sound and low-cost treatment technologies to remediate nitrate-rich groundwater.</i></p>
<p>Engineering and/or Environment Training R&D</p>	<p><i>Name of assignment or project: Protect-Olive Oil Products Protection from Herbicides and Insecticides. Target were five Rural Communities [Tulkarem] and 6 villages in Birzeit area</i></p> <p><i>Year: 02/2014 – 11/2014</i></p> <p><i>Location: Palestine</i></p> <p><i>Client: Juhoud for Community and Rural Development/ UNDP-GEF Program.</i></p> <p><i>Main project features: Community development, farmers technical training, R&D, sampling program for soil, olive trees leaves, and olive oil to screen for potential pesticides residues, and quality analysis of oil before and after pesticides applications, control olive trees farms, filed training and questionnaire for baseline data collection.</i></p> <p><i>Positions held: Principle Investigator (PI) and Project Team Member (TM)</i></p> <p><i>Activities Performed: Development of sampling program, training workshops and field questionnaire for baseline data collection. Sampling of soil, olive trees leaves, and olive oil before pesticides application, screening and residues analysis of potential pesticides, herbicides and insecticides on soil, leaves and olive oil. Control olive trees farms are also analysed for pesticides, where farmers gave no practices of pesticides usage, training workshops organization and public consultation, delivery of training materials for safe usage of pesticides on agricultural farms.</i></p>
<p>Engineering and/or Environment Training R&D</p>	<p><i>Name of assignment or project: Building Capacity and Institutional Reform for an Integrated Management of Water and Sanitation Services in Rural Communities</i></p> <p><i>Year: 07/2013 – 02/2014</i></p> <p><i>Location: Palestine</i></p> <p><i>Client: Palestinian Water Authority (PWA) / Austrian Development Agency (ADA).</i></p> <p><i>Main project features: Building capacity, technical training, R&D, planning, design of rural sanitation systems, feasibility studies, rural sanitation strategy development</i></p> <p><i>Positions held: Principle Consultant (PC) and Project Team Member (TM)</i></p> <p><i>Activities Performed: Principle Technical Researcher/Water Resources & Sanitation Directorate in the field of strategic development of rural sanitation services, review of 22 M.Sc. thesis works, develop national strategies-biosolids management for beneficial uses and wastewater treatment technologies, workshops organization and public consultation, delivery of OM&R manuals for onsite treatment systems, report writing and delivery.</i></p>
<p>Engineering and/or Environment Training R&D</p>	<p><i>Name of assignment or project: COMPETE Project-EIA study for Wastewater Reuse Facilities in Nablus West WWTP and Jenin WWTP</i></p> <p><i>Year: March-July 2014</i></p> <p><i>Location: Palestine</i></p>

	<p>Client: USAID/DAI</p> <p>Main project features: Effective use of reclaimed effluent from NWWTP for agricultural irrigation as one of the first large scale water reuse projects to be executed by NEF and PCARD. The water reuse project entails development of preliminary designs for transport mains, storage reservoirs and reuse schemes nearby Nablus West WWTP and Jenin WWTP, 20 and 10 hectare respectively.</p> <p>Positions held: EIA Environmental Expert/individual consultant</p> <p>Activities performed: Preparation and conduction of scoping sessions, training agenda, materials and conduction of training programs for farmers, technical evaluation of training sessions, project design assessment, training manuals preparation for wastewater reuse and biosolids disposal, environmental management plan preparation</p>
Engineering and/or Environment Training R&D	<p>Name of assignment or project: Building Capacity and Institutional Reform for an Integrated Management of Water and Sanitation Services in Rural Communities</p> <p>Year: 03-06/2012</p> <p>Location: Palestine</p> <p>Client: Palestinian Water Authority (PWA)/GIZ</p> <p>Main project features: PWA and GIZ/ Technical Trainer for PWA staff and joint services councils on the use of software packages [Aqua Designer, Aqua Aero] for the design and technical review of wastewater treatment plants designs, simulation of process performance, short design assignment, calculation of CAPEX and OPEX of sewage works, evaluation of training program</p> <p>Positions held: Technical Trainer</p> <p>Activities performed: Preparation of training agenda, materials and conduction of training programs, technical evaluation of training sessions, project design assignment, training manuals preparation, feasibility studies using alternative WWTPs designs</p>
Engineering and/or Environment Training R&D	<p>Name of assignment or project: GIZ Senior Technical Expert</p> <p>Year: 12/2010-11/2011</p> <p>Location: Palestine</p> <p>Client: Ministry of Local Government (MoLG)</p> <p>Main project features: Solid Waste Management/ Institutional Capacity Building. Technical advice/Joint Services Directorate in the field of solid waste management, Solid Waste by-law, strategy and policy,</p> <p>Positions held: Technical Adviser</p> <p>Activities performed: strategic actions development & review, principle trainer on use of software packages to design sewage works alternatives of 3 feasibility studies for Joint Services Councils, member of the EIA committee and reviewed 6 EIA studies for urban sewage works prepared by Black & Veatch for the PWA, technical training programs for PWA and MoLG and JSCs staff, report writing and project proposal development, HRD, ToR writing for three priority solid waste tasks, membership in national committees within the MoLG, PWA and PSI.</p>
Engineering and/or Environment Training	<p>Name of assignment or project: GES Senior Technical Adviser</p> <p>Year: 01/2009 – To Present</p> <p>Location: Palestine</p> <p>Client: Global Environmental Services [GES]</p> <p>Main project features: WHRD and professional training, building capacity, technical advice, project development and writing, community advise, project acquisition and marketing</p> <p>Positions held: Technical Expert/Trainer</p>

	<p>Activities Performed: Technical support on strategic sanitation services provision, facility design and management, review of technical design of wastewater treatment plants and effluent reuse schemes, EIA review, evaluation of technical and financial offers, training programs development and conduction, development and writing of feasibility studies, use of Aqua Designer Software for the design and process optimization, promotion and contract negotiation for three MBR systems; Alreehan housing compound, Altireh MBR system, Bethlehem Industrial Estate MBR compact unit, and Diplomatic Housing Compound extended aeration system with effluent reuse schemes, EIA Study Team Leader for Alreehan WWTP, Dec 2012.</p>
Engineering and/or Environment Training	<p>Name of assignment or project: GIZ Senior Technical Expert Year: 01/2009 – 09/2010 Location: Palestine Client: Palestinian Water Authority [PWA] Main project features: Water Program/Institutional Capacity Building, technical advice/Water Resources and Sanitation Directorate, project development and writing, technical training, community advise, joint water commission membership Positions held: Technical Expert Activities performed: Technical advice on strategic rural wastewater management, review of technical design of wastewater treatment plants and effluent reuse schemes, EIA review, evaluation of technical and financial offers, prepare ToR, JWC membership, training programs development and conduction, development and writing of feasibility studies, Aqua Designer Software training, initiation of wastewater policy, strategic actions, reclaimed water guidelines, technical committees membership</p>
Engineering and/or Environment Training	<p>September 1996 to present, Associate Researcher, Birzeit University (BZU), Palestine Name of assignment or project: Sustainable rural sanitation and wastewater reuse for food security program Year: 10/2010-08/2014 Location: Palestine Client: Institute of Environmental & Water Studies, BZU, and PARC Main project features: Wastewater reuse for food security, design, build operate 2 rural sewage works, planning of effluent reuse schemes, public awareness campaigns on water reuse in agriculture Positions held: Trainer Activities Performed: Training program development, agenda preparation, training manuals development, conduction of lab analysis, preparation of video tape on wastewater reuse, public awareness campaigns for farmers, women, and school kids, non-conventional water resources development, cost-effectiveness of decentralized wastewater management, review of technical design of wastewater treatment alternatives using German software AnaWin and Aqua Aero software, training programs for operator staff on OMR of activated sludge systems, technical site visits to local and regional sewage works, baseline data collection and EIA studies of wastewater reuse, managed two desk studies on cost effectiveness and women empowerment</p>
Engineering and/or Environment Training	<p>Name of assignment or project: PRO-MEMBRANE within FP6-INCO-Program Year: 05/2006-05/2008 Location: Palestine Client: IEWS and partners; Germany, Italy, Spain, Egypt, Syria, Tunisia Position: Project coordinator/manager</p>

	<p>Main project features: Promotion and focusing on current research activities using Membrane Technologies [membrane bioreactors; MBR, UF, MF, and RO] for Water Treatment in Mediterranean Zone; identify, map & assess on-going research activities</p> <p>Positions held: Project coordinator/manager</p> <p>Activities performed: Database establishing on-going research & professionals in membrane technology, identifying knowledge gaps and barriers for the cooperation of R&D activities and networking of current research in a Mediterranean scope, develop future research activities, non-conventional water resources; brackish water, rainwater harvesting, desalination, MBR systems, raising awareness, training & public awareness campaigns, young scientist awards program, web page development, regional and international conferences.</p> <p>Name of assignment or project: Environmental Management of Water & Wastewater Quality</p> <p>Year: 10/2007</p> <p>Location: Palestine</p> <p>Client: UNESCO/Flanders</p> <p>Main project features: Building capacity, environmental management, lab analysis, effluent quality for reuse</p> <p>Positions held: Trainer</p> <p>Activities performed: Training program development, agenda preparation, training manuals development, conduction of lab analysis, preparation of video tape</p>
Engineering and/or Environment Training	<p>Name of assignment or project: Operational Training & Wastewater Quality Programs</p> <p>Year: 12/2005 AND 05/2004</p> <p>Location: Palestine</p> <p>Client: Water Research Centre/Al Azhar University, Gaza</p> <p>Main project features: Building capacity and training, human resources development, operational management of sewage works</p> <p>Positions held: Team Leader/Sanitary Engineer</p> <p>Activities performed: Development of tailor made training programs on water and wastewater analysis, technical and financial proposal writing, video tape preparation, training materials preparations, manual for OM&R of onsite treatment and effluent reuse schemes, program organization and instructor for site visits to sewage works, program evaluation and final report writing</p> <p>Name of assignment or project: CORETECH</p> <p>Year: 04/2000-04/2003</p> <p>Location: Palestine</p> <p>Client: Faculty of Engineering, Birzeit University</p> <p>Main project features: Capacity Building, HRD, R&D</p> <p>Positions held: Project Coordinator</p> <p>Activities performed: proposal writing and daily scientific coordination, project staff meeting, technical report writing, annual meetings of project partners, research supervision of three M.Sc. students worked on low-cost treatment technologies using integrated UASB reactor/two-stage biofilters adequate for treatment and effluent reuse, scientific publications and conference attendance, community training on onsite</p>

	<p>treatment systems.</p> <p>Name of assignment or project: MEDA project</p> <p>Year: 01/2003-04/2007</p> <p>Location: Palestine</p> <p>Client: Water Studies Institute, Birzeit University</p> <p>Main project features: Capacity Building, HRD, R&D</p> <p>Positions held: Project team member</p> <p>Activities performed: proposal development and technical writing, trainer and development of training programs, project staff meeting, M.Sc. students supervision, development of effluent reuse guidelines, and design review of the onsite systems</p>
<p>Engineering and/or Environment Training</p>	<p>Name of assignment or project: UNESCO/MEDA Training Programs</p> <p>Year: 04-12/2005</p> <p>Location: Palestine</p> <p>Client: Institute of Environmental and Water Studies [IEWS], BZU and Palestinian Agricultural Relief Committees (PARC)</p> <p>Main project features: Training program development and conduction, planning and design of treatment systems, OM&R sessions of urban sewage works</p> <p>Positions held: Project leader</p> <p>Activities performed: Building capacity and training of sanitary engineers and sewage works operators, training program development, lead trainer on WWTPs design, technical training on process optimization, self-monitoring programs, training manuals preparation on OM&R of WWTPs, process optimization, BNR processes, sludge bulking and foaming abatement, effluent reuse and biosolids disposal, site visits planning and conduction to local wastewater treatment plants; Birzeit University, Ramallah and Al-Bireh sewage works, analysis of daily monitoring reports.</p> <p>Name of assignment or project: PoWER within FP6-INCO-Program</p> <p>Year: 06/2002-07/2007; extended 2011</p> <p>Location: Palestine</p> <p>Client: Institute of Water Studies [IWS], BZU among other 17 partners; among them China, Colombia, Egypt, Ghana, India & Iran</p> <p>Main project features: Under PoWER framework, manage joint Masters Programs with universities in China, India, Indonesia, Palestine and the UK, and 8 online courses are being developed, co-development of two E-learning modules, Newsletter Chief Editor</p> <p>Positions held: Project's Newsletter Editor & Scientific Committee Member</p> <p>Activities performed: Building capacity and training of sanitary engineers and sewage works operators, training program development, co-supervision of M.Sc. Programs with universities in China, India, Indonesia, Palestine, NL and the UK, and 8 online courses are being developed. Co-development of two E-modules, Newsletter Editor, joint publications, identifying knowledge and research needs within PoWER partnership, develop e-course "Waste Management & Biosolids Reuse", participate in video-conferencing and establish multi-media learning facilities at BZU.</p>
<p>Engineering and/or Environment Training</p>	<p>August 1996-August 1998; AND from January 2010-Sept. 2010</p> <p>Palestinian Water Authority (PWA), Palestine</p> <p>Senior Technical Advisor/CIM-German Agency for International Cooperation (GIZ)</p>

	<p>Name of assignment or project: GIZ-Senior Technical Advisor</p> <p>Year: 08/1996-08/1998, AND 01/2009-09/2010</p> <p>Location: Palestine</p> <p>Client: Palestinian Water Authority [PWA]</p> <p>Main project features: HRD, building capacity, technical training, community advice, feasibility studies, EIA review, institutional building</p> <p>Positions held: Head of Technical Department</p> <p>Activities performed: review of water and sanitation projects [Nablus West WWTP; Salfeet WWTP; Ramallah WWTP; Jenin Sewage works upgrade, community consultancy services and professional training, PWA representative on sanitation sphere and presentations of technical papers at national and international conferences, conduction of and EIA core team leader for several environmental Impact studies (EIAs for USAID water supply projects; impact of Jewish colonies on Palestinian environment, wastewater policy elements, wastewater strategic planning, transboundary wastewater management, non-conventional water resources; wastewater reuse schemes, effluent quality standards, brackish water desalination, MBR systems as packaged compact treatment units, membership in several national networks and committees on sanitation and environment as the Joint Water Committee (JWC), development of water and wastewater standards (PSI), review of wastewater projects, HRD and training, R&D review</p>
<p>Engineering and/or Environment Training</p>	<p>Name of assignment or project: Acquisition/Project Manager with Acerplan/Hyder GmbH, Halle/Saale, Germany</p> <p>Year: February 1995-July 1996</p> <p>Location: Halle/Saale, Germany</p> <p>Client: Town councils; Federal Ministries, Wastewater Associations, Industrial Sector</p> <p>Main project features: Use of German Software for the design of several municipal waste and sewage treatment facilities; Rohne Helme Rural District, Zeitzer Industrial Sewage Works, landfill design, hydraulic river modelling, planning and design of water/sewer networks and pumping stations, low-cost sanitation projects for rural areas, preparation of feasibility studies and technical reports, review of existing design, conduction of one EIA for Chemnitz Urban Sewage Works to serve 500.000 inhabitants, planning, design, tendering, construction supervision and management, and project acquisition projects acquisition, technical and financial evaluation of sanitation facilities, and report writing.</p> <p>Positions held: Office Deputy Head/Project Manager</p> <p>Activities performed: Business development, project management, projects acquisition, marketing, planning, design and technical review of feasibility studies, industrial pre-treatment, brown fields remediation</p>
<p>Engineering and/or Environment Training</p>	<p>Name of assignment or project: Project Manager with Dr. Sonnenburg Ingenieurbüro GmbH, Hungen, Germany</p> <p>Year: July 1990-January 1995</p> <p>Location: Hungen, Germany</p> <p>Client: Town councils; Federal Ministries, Wastewater Associations, Industrial Sector</p> <p>Main project features: Use of ANaWin, a German Software for the design of several municipal waste and sewage treatment facilities; EIA conduction for industrial estate expansion and three large wastewater treatment plants, revision of technical</p>

	<p>reports on Brownfields and old site remediation of Chemical Industry in Bitterfeld City, feasibility studies and design for municipal sewage works in urban cities as Gröna and Klaffenbach, planning and design of several central sewage treatment plants; Ursprung and Kirchberg, Chemnitz, Salzwedel, Weissensee and Cunersdorf; population served by these wastewater treatment plants varied between 50 and 500000 population equivalent. [PE], upgrade of onsite and municipal WWTPs, feasibility studies of development projects, old site remediation of chemical Industry, training programs, surface water level modelling, projects acquisition, technical, financial evaluation of sanitation facilities and report writing.</p> <p>Positions held: Office Deputy Head/Project Manager</p> <p>Activities performed: Human resources management, business development, project management, projects acquisition, marketing, planning, design and technical review of feasibility studies, sewage works training manuals, conduction of EIA studies</p>
<p>Engineering and/or Environment Training</p>	<p>Name of assignment or project: Training, R&D Management with FAL Research Institute of Technology AND Inst. Sanitary & Environmental Engineering, TU Braunschweig, Braunschweig, Germany</p> <p>Year: November 1988-June 1990</p> <p>Location: Braunschweig, <i>Germany</i></p> <p>Client: Town councils; Federal Ministries, Wastewater Associations, Industrial Sector</p> <p>Main project features: Use of DeNNI, a German Software for the design of municipal wastewater treatment plants (WWTPs); co-mentoring of PhD and MSc research work on aerobic and anaerobic wastewater treatment using lab scale bioreactors for leachate treatment, slaughter house wastewater and industrial wastewater from the Volkswagen Auto Industry/Wolfsburg and applying conventional activated sludge systems and biofilters using natural and synthetic fixed bed media, process control, water and data analysis, quality assurance and technical report writing, conduction of training programs, technical and financial evaluation of sanitation facilities, and report writing.</p> <p>Positions held: Senior Researcher/Technical Trainer</p> <p>Activities performed: Human resources management, business development, project management, projects acquisition, marketing, planning, design and technical review of feasibility studies, sewage works training manuals, conduction of EIA studies.</p>

15. Lecturing / teaching / research supervision

B.Sc. Level: (Civil Engineering Department; ENCE)

ENCE 520 "Introductory Graduation Project"
ENCE 530 "Advance B.Sc. Graduation Project"

M.Sc. Level:

MSc Programs in:

Water & Environmental Engineering (WEEN)
Water and Environmental Science (WESC)

WESC 634 "Environmental Processes"
WEEN 635 "Wastewater Treatment & Reuse"
WEEN 638 "Solid Waste Management"
WEEN 731 "Advanced Wastewater Treatment"
WEEN 632 "Advanced Water Treatment"
WEEN 639 "Environmental Impact Assessment; EIA"
WESC 730 "Bioremediation"

M.Sc. Program in Urban Planning & Design (UPLD):

UPLD 732 "Urban Environmental Management"
WEEN 860 & UPLD 860 "Thesis"
WEEN 830 & UDPL 830 "Research Seminar I"
WEEN 830 & UDPL 831 "Research Seminar II"

16. Other relevant information (e.g., Publications)

16.1 Refereed Journals

1. Yaqob, E.Y., Al-Sa`ed, R., Sorial, G., Suidan, M., 2014. Conflict analysis of transboundary wastewater management-The case of Israel/Palestine borders. *Asian J. Appl. Sci. Eng.*, 3(2), 82-95.
2. Musleh, A., Al-Sa`ed, R., 2013. Peace building projects as a tool for joint wastewater management along the Green Line: Cases studies. (Submitted)
3. Yerousis, G., Al-Sa`ed, R., 2013. Innovative biosolids recycling: A pilot-scale for biosolids-amended biobricks production (submitted).
4. Al-Sa`ed, R., 2013. Quantification of pesticides residues on fruits and vegetables from selected farms in Palestine (Submitted).
5. Shkoukani, M.F., Al-Sa`ed, R.M., 2013. Development of an environmental management system using cleaner production in Palestinian dairy industries (Submitted).
6. Ghannam, M., Al-Sa`ed, R.M., Zimmo, O., 2013. Recycling assessment of solid waste from Palestinian olive mills (Submitted).
7. Hamrasheh, B., Abu-Madi, M., Al-Sa`ed, R., 2013. Impacts of Potential Climate Change on Palestinian Rainfed Agriculture: the Case of Jenin District (Submitted).
8. Al-Sa`ed, R., 2014. Policy implications on the selection of wastewater treatment technologies for agricultural in Beit Dajan, Palestine. (In preparation).
9. Al-Sa`ed, R., Ramlawi, A., 2014. Utilization of public health pesticides in selected Palestinian districts. (In preparation).
10. Samarah, N., Al-Sa`ed, R., 2014. Fate and impacts of heavy metals of Al-Bireh stabilized biosolids used for agricultural applications (In preparation).
11. Al-Sa`ed, R., Samarah, N., 2014. Origin and mass balance of heavy metals in Al-Bireh sewage works: Liquid and sludge lines (In preparation).
12. Mafarjeh, M. Al-Sa`ed, R., 2014. Feasibility of windrow composting for domestic solid waste recycling in Palestine: A pilot scale facility (In preparation).
13. Hassan, E., Al-Sa`ed, R., 2014. Understanding the cause of sludge bulking and foaming phenomena in Al-Bireh waste water treatment plant (In preparation).
14. Al-Sa`ed, R., Tomaleh, N., 2012. Performance evaluation of a full-scale extended aeration system with emphasis on operation reliability and effluent quality for reuse. *Clean: Air, Water Soil*, 40(11), 1250-1256.
15. Al-Sa`ed, R., Ramlawi, A., Salah, A., 2011. A survey on utilization of agricultural pesticides in selected Palestinian districts. *Int. J. Environ. Studies* 68(4), 519-529.
16. Al-Sa`ed, R., Abu-Madi, M., Zimmo, O., 2011. Novel Design Concept for Facultative Ponds Using Rock Filters to Reclaim the Effluent. *J. Environ. Eng.* 137(4), 284-290.
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20. Deek, Z., Abu-Madi, M., Al-Sa`ed, R., 2010. Acceptance of rural communities in Ramallah and Al-Bireh Governorate to use treated wastewater. *Dirasat: Engineering Sciences* 37(1), 117-126.

21. Al-Sa`ed, R., Sayadi, S., Ghata, A., Abdel-Shafy, H., Schories, G., Oropeza, M., Lorenzo, A., Drioli, E., 2009. Advancing membrane technologies for wastewater treatment and reclamation in selected Arab MENA countries. *Desalination & Water Treatment* 4(1-3), 287-293.
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23. Abu-Madi, M., Al-Sa`ed, R., 2009. Towards sustainable wastewater reuse in the MENA region. *Consilience: The Journal of Sustainable Development* 2(3), 1475-1481.
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28. Al-Sa`ed, R., 2007. Pathogens assessment in reclaimed effluent used for industrial crops irrigation. *Int. J. Environ. Res. Public Health (IJERPH)* 4(1), 68-75.
29. Ali, M., Al-Sa`ed, R., Mahmoud, N., 2007. Start-up phase assessment of a UASB-septic tank system treating domestic septage. *Arabian J. Science & Eng.* 32(1C), 65-75.
30. Al-Sa`ed, R., 2007. Sustainability of natural and mechanized aerated ponds for domestic and municipal wastewater treatment in Palestine. *Water International* 32(2), 310-324.
31. Samhan, S., Al-Sa`ed, R., Mahmoud, N., 2007. Removal of pathogenic microorganisms in pilot-scale UASB-septic tanks and Albireh urban wastewater treatment plant in Palestine. *Water Int.* 32(5), 538-544.
32. Al-Sa`ed, R., Mubarak, S., 2006. Sustainability assessment of onsite sanitation facilities in Ramallah-Albireh district with emphasis on technical, socio-cultural and financial aspects. *Manage. Environ. Quality: An Int. J.* 17(2), 140-156.
33. Al-Sa`ed, R., Hithnawi, T., 2006. Domestic septage characteristics and co-treatment impacts on Albireh wastewater treatment plant efficiency. *Dirasat: Engineering Sciences* 33(2), 187-198.
34. Fuqaha, A., Al-Sa`ed, R.M., 2006. Use of biofilter units to enhance the effluent quality of anaerobically pretreated domestic wastewater. *Dirasat: Engineering Sciences* 33(2), 117-127.
35. Nazer, D.W., Al-Sa`ed, R.M., Siebel, M.A., 2006. Reducing the environmental and economic impact of the unhairing-liming process in the leather tanning industry. *J. Clean. Prod.* 14(1), 65-74.
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16.2 Int. Conferences and Symposia

1. Al-Sa'ed, R., 2013. The International Water Week, Aquatic Exhibition and Water Trade Mission to the Netherlands. 3-9 November 2013, Amsterdam, The Netherlands. Netherlands Water Partnership, Dutch Representative Office.
2. Yerousis, G., Al-Sa'ed, R., 2012. Technical and economic feasibility of biosolids - Amended concrete brick production. Proceedings of Linnaeus 8th ECO-TECH International Conference. 26-28 Nov. 2012, Kalmar, Sweden.
3. Samarah, N., Al-Sa'ed, R., 2010. Hazardous emissions from Al-Bireh oxidation ditch: heavy metals in the effluent and biosolids. Proc. Linnaeus ECO-TECH 7th Int. Conf. Establishment of Cooperation Between Companies and Institutions in the Nordic, Baltic Region, and the World, 22-24 Nov. 10, Kalmar, Sweden.
4. Al-Sa'ed, R., Al-Hindi, A., 2009. Challenges of transboundary wastewater from Palestinian communities along the Green Line. Proc. Int. Symposium on Transboundary Wastewater Management, 31 August-2 Sept., 2009, University of Arizona, Arizona, USA.
5. Al-Sa'ed, R., Sayadi, S., Ghata, A., Abdel-Shafy, H., Schories, G., Oropeza, M., Lorenzo, A., Drioli, E., 2008. Current status of R&D in membrane technologies for wastewater treatment in selected Arab MENA countries. Proc. Int. Symposium on Biotechnology, 4-8 May, 2008, Sfax, Tunisia.
6. Al-Sa'ed, R., Khamis, M., El-Dakiky, M., 2008. Assessment of current conventional and membrane technologies for wastewater treatment and effluent reclamation in Palestine. Proc. Int. Symposium on Biotechnology, 4-8 May, 2008, Sfax, Tunisia.
7. Al-Sa'ed, R., Mahmoud, N., Abu-Madi, M., Zimmo, O., 2007. Enhancement of waste stabilization ponds efficacy using local fixed film materials. Proc. Kalmar ECO-TECH '07 and 3rd Baltic Symposium on Environmental Chemistry, 26-28 Nov. 07, Kalmar, Sweden.
8. Abu-Sharbak, N., Al-Sa'ed, R., Abu-Madi, M., 2007. Analysis of operation costs at Al-Bireh wastewater treatment plant: A Palestinian case study. Proc. Kalmar ECO-TECH '07 and 3rd Baltic Symposium on Environmental Chemistry, 26-28 Nov. 07, Kalmar, Sweden.
9. Abu-Madi, M., Al-Sa'ed, R., Mahmoud, N., Burnat, J., 2007. Socio-economic assessment of greywater treatment systems in western Ramallah. Proc. Int. Conf. on Water Resources in Palestine, 25-28 August, 2007, Amman, Jordan.
10. Daghray, G., Al-Sa'ed, R., 2007. Pollution and Water Quality Assessment of Wadi Al Qilt. Proc. Int. Conf. on Sustainable Development and Management of Water in Palestine. Amman, Jordan, 27-30 August 2007.
11. Barghouth, J., Al-Sa'ed, R., 2006. Archaeology and landscape settings of the ancient water supply systems in Jerusalem. Proc. 1st Intl. IWA Symposium on Water and Wastewater Technologies in Ancient Civilizations, 28-30. October, Iraklion, Greece.
12. Al-Sa'ed, R., 2005. Education and research capacity building in environmental science and engineering: Water Studies Institute of Birzeit University a case. Proc. Eco-Tech 05 & 2nd Baltic Symposium Environ. Chemistry, Kalmar University, 28.11.-3.12.05, Sweden.
13. Fuqaha, A., Al-Sa'ed, R., 2004. Development of a two-stage biofilter system to enhance the effluent quality of a UASB pretreated domestic sewage. Proceedings of the 2nd Environmental Symposium Water Resources and Environmental Protection in the Middle East and North Africa. Amman, Jordan.
14. Al-Sa'ed, R., 2004. Sustainability of oxidation and mechanized aerated ponds for domestic and municipal wastewater treatment in Palestine. Proc. Int. Engineering Conference. Mutah University, Jordan.
15. Abu-Madi, Braadbaart, O., Al-Sa'ed, R., and Alaerts, G., 2004. Incentive systems for the use of reclaimed wastewater in irrigated agriculture in Jordan and Tunisia. Proceedings of the Int. Water Demand Management Conference. 30 May-3 June, 2004. Dead Sea, Amman, Jordan
16. Al-Sa'ed R.M., 2003. Wastewater treatment, reuse, and reclamation in the West Bank/Gaza. Proceedings of the Int. Workshop on Wastewater Reuse and Water-Related Agricultural Practices. Nicosia, Cyprus.

17. Al-Sa'ed R.M. , 2003. Environmental science and engineering within the context of a regional conflict: Problem assessment and suggested solutions. Proc. Eco-Tech 03 Baltic Symposium Environ. Chemistry, Kalmar University, Sweden.
18. Al-Juaidy, A., Mimi Z, Al-Sa'ed, R., 2003. Palestinian experience with enhanced pre-treatment of black wastewater from Birzeit University using a UASB septic tank system. Proceedings of the 2nd Int. Symposium on Ecological Sanitation, Lübeck, Germany.
19. Theodory, J., Al-Sa'ed, R.M., 2002. Performance evaluation and monitoring of an appropriate low-cost wastewater treatment technology for small Palestinian communities. Proc. Regional Symposium on Wastewater Reclamation and Reuse. Crete, Greece.
20. Abu-Madi, M., Alaerts, G., Braadbart, O., Al-Sa'ed, R., 2002. Conceptual framework for wastewater reuse in the Middle East and North Africa. Proceedings of the International Conference on Waste Management, Spain.
21. Abu Madi, M., Braadbaart, O., Al-Sa'ed, R., Alaerts, G., 2002. Acceptance and willingness of farmers to pay for irrigation with reclaimed wastewater in the Middle East and North Africa Region. Proceedings of the Regional Symposium on Wastewater Reclamation and Reuse, Crete- Heraklion, Greece.
22. Sanders, W., Zeeman, G., Al-Sa'ed, R., Fayyad, M., Khassab, G., Angelakis, A., El Gohary, F., van Lier, B. J., 2001. Appropriate agricultural use of treated effluent under (semi-) arid climate conditions. Proc. INCOMED Conf., June 11-13, Amman, Jordan.
23. Al-Sa'ed R.M., 2000. Wastewater management for small communities in Palestine. Proc. Technical Expert consultation on appropriate and innovative wastewater management for small communities in EMR countries. WHO/CWHA, Amman, Jordan.

16.3 National Conferences and Symposia

1. Al-Sa'ed, R., 2013. Sustainable management of olive mill wastewater in Palestine: Challenges and opportunities. 2nd International Conference on Olive in Palestine, 25-26 November 2013, Palestine Technical University-Kadoorie, Tulkarm, Palestine
2. Hamrasheh, B., Abu-Madi, M., Mahmoud, N., and Al-Sa'ed, R. (2012). Impacts of Potential Climate Change on Rainfed Agriculture in Jenin District, Palestine. In Conference Proceedings: Water Crisis and Agricultural Development in Palestine, 21-22 May 2012, Palestine Technical University, Khadoorie, Palestine
3. Al-Sa'ed, R., 2011. Achieving sustainable wastewater treatment facilities (WWTFs) under occupation. Proc. Sustainable Development – a Global Challenge, 18 -20 November 2011, Birzeit University, Birzeit, Palestine.
4. Al-Sa'ed, R., 2009. Impacts of the Israel's water policy on Palestinian water sector: Deny, degrade, delay and deduct. Proc. 2nd Int. conference on the Palestinian Environment, 13-15 Oct., 2009, An-Najah National University, Nablus, Palestine.
5. Al-Sa'ed, R., Ramlawi, A., and Salah, A., 2009. A Survey on Utilization of Agricultural Pesticides in Selected Palestinian Districts. Proc. 2nd Int. conference on the Palestinian Environment, 13-15 Oct., 2009, An-Najah National University, Nablus, Palestine.
6. Al-Sa'ed, R., Hind, M., Tomaleh, N., 2008. Albireh wastewater treatment plant: reliability of operation and effluent quality for reuse. Proc. 1st Symposium on Wastewater Reclamation and Reuse for Water Demand Management in Palestine, 2-3 April, 2008, Birzeit University.
7. Swaileh, K., Muhammad, R., Al-Sa'ed, R., Abu Heleu, R., 2008. Health risks from microbial growth and biofilms in drinking water distribution systems in Palestine. Proc. 2nd Int. conference on Sustainable Development and Management of Water in Palestine, Amman, Jordan.
8. Deek, Z., Abu-Madi, M., Al-Sa'ed, R., 2008. Acceptance of Rural Communities in Ramallah and Al-Bireh Governorate to Use Treated Wastewater. Proceedings of First Symposium on Wastewater Reclamation and Reuse for Water Demand Management in Palestine, 2-3 April, 2008, Birzeit University.
9. Abu-Madi, M., Al-Sa'ed, R., Braadbaart, O., Alaerts, G., 2005. Cost comparison of wastewater treatment technologies in Jordan and Tunisia. Proc. Int. conference on water: Values and right, May 2-4, Palestine.

10. Samhan, S., Al-Sa`ed, R., Mahmoud, N., 2005. Pathogens Removal in UASB-Septic Tanks and Albireh Oxidation Ditch Wastewater Treatment Plant. Proc. Int. conference on water: Values and right, May 2-4, Palestine.
11. Abu-Madi, M., Al-Sa`ed, R., Braadbart, O., Alaerts, G., 2000. Selection criteria for appropriate sanitation in the Palestinian rural and semi-urban communities. Proc. Int. Symposium on Water Sector Capacity Building and Research in Palestine, Birzeit University, Dept. of Civil Engineering, Birzeit, Palestine.

16.4 Book Chapters

1. Al-Sa`ed, R., Atallah, F., Abdel-Shafy, H., Mimi, Z., Sayadi, S., Criscuoli, A., Schories, G. 2011 Identification and mapping of the research organizations in the field of membrane technology. In: A. Lorenzo and A. Vega (Eds.), Membrane Technology in Water Treatment in the Mediterranean Region: PROMEMBRANE. IWA Publications. pp. 18-24.
2. Criscuoli, A., Figoli, A., Al-Sa`ed, R., Drioli, E. 2011. Guideline of action regarding future research and development in the field of MT. In: A. Lorenzo and A. Vega (Eds.), Membrane Technology in Water Treatment in the Mediterranean Region: PROMEMBRANE. IWA Publications. pp. 25-36.
3. Hernández, J., Schories, G., Al-Sa`ed, R. 2011. Promotion and diffusion of MT research and development in the Mediterranean area. In: A. Lorenzo and A. Vega (Eds.), Membrane Technology in Water Treatment in the Mediterranean Region: PROMEMBRANE. IWA Publications. pp. 38-42.
4. Al-Sa`ed, R., Al-Hindi, A. 2010. Challenges of transboundary wastewater management for Palestinian communities along the Green Line-The Israeli-Palestinian border. In: S. Megdal, B. Varady and S. Eden, (Eds.), Economic, Environmental, and Community Implications of Expanding Reuse and Desalination for Future Water Supplies. UNESCO (USA), pp. 21-37.
5. Abu-Madi, M., Al-Sa`ed, R., Mahmoud, N., Burnat, J. 2010. Comparative socioeconomic study of greywater and cesspit systems in Ramallah, Palestine. In: S. McIlwaine and M. Redwood (Eds.), Greywater Use in the Middle East: Technical, social, economic and policy issues. IDRC (Canada).
6. Samhan, S., Al-Sa`ed, R., Assaf, K., Friese, K., et al., 2010. Wastewater management overview in the Occupied Palestinian Territory. In: D. Darcelò and M. Petrovic (Eds.), The Handbook of Environmental Chemistry: 1-20, DOI: 10.1007/698_2010_64. Springer-Verlag, Berlin, Heidelberg.
7. Swaileh, K., Muhammad, R., Al-Sa`ed, R., Abu Heleu, R., 2008. Health risks from microbial growth and biofilms in drinking water distribution systems in Palestine. In: A. Aliawi, K. Assaf and J. Jayyousi (Eds.), Sustainable Development and Management of Water in Palestine, UNESCO Cairo Office. pp. 489-496.
8. Zimmo, O., Petta, G., Mahmoud, N., Al-Saed, R., Mimi, Z., and Abu-Madi, M. (2005). Prospects of efficient wastewater management and water reuse in Palestine : country study. EMWater-Project "Efficient Management of Wastewater, its Treatment and Reuse in the Mediterranean Countries.

17. Research Supervision [Finished]:

1. Salim Yahya (2000) Effects of Environmental Parameters on Nitrification and Denitrification in Duckweed Based and Algae Based Stabilization Containers
2. Hani Ayed (2000) Development of an Integrated Water Management Strategy for Ramallah Rural Areas.
3. Musbah Tahboub (2000) Evaluation of Wastewater Treatment Alternatives for Hebron City.
4. Arqam Hijawi (2001) Investigation of Biological Nitrogen Removal in Natural Systems.
5. Eyad Yaqob (2001) Nitrogen transformations in Algae and duckweed-based wastewater treatment.
6. Amin Nwahda (2001). Production of biologically stable water through process performance enhancement of Jericho Water Treatment Plant in Palestine.
7. Johny Theodory (2002) Performance Evaluation And Process Optimization of Talitha Kumi WSP's.
8. Mohammad Amarnah (2002) The Role of Wastewater Characteristics on the Selection of Anaerobic Treatment Technology.

9. Dima Nazer (2002) Development of a Modified Method for Reducing the Environmental Impact and Economics of the Unhairing-Liming Process: Leather Tanning Industry.
10. Abdul-Halim Fuqaha (2003) Development of Two Stage Biofilter as a Post Treatment Option for UASB Pre-treated Domestic Wastewater.
11. Manal Abed (2003) Assessment of UASB Technology as a Pretreatment Stage for Domestic Wastewater
12. Nuha Ghneim (2003) Quantification of Nitrification and Denitrification Rates in Algae Based and Duckweed Based Waste Stabilization Ponds.
13. Taghrid Hithnawi (2004) Septage Characterization and Impact Assessment on the Treatment Efficiency of Albireh Wastewater Treatment Plant.
14. Sana Mubarak (2004) Socio-Cultural and Economical Analysis of OSS in Ramallah District.
15. Abdel Fattah Hassan (2004) Optimization of the Specific Methanogenic Activity (SMA) Assay.
16. Naser Abu Sharbak (2004) Marginal Opportunity Cost Pricing For Wastewater Disposal: A Case Study.
17. Subhi Samhan (2005) Domestic Wastewater Treatment Using Integrated UASB- Pond systems: Comparison of Pathogens Removal Efficacy.
18. Ghassan Daghra (2005) Pollution and Water Quality Assessment of Wadi Al Qilt.
19. Nimmer Ibrahim (2006). Development of Low-cost Biofilters to Enhance the Quality of Anaerobically Pretreated Domestic Effluent.
20. Muneer Sa'ad (2006) Developing an Environmental Policy: Birzeit University a Case Study
21. Manal Shkukani (2008) Feasibility of Cleaner Production in Palestinian Dairy Industry.
22. Dima Judeh (2009) Impact Assessment of Urbanism on the Palestinian Environment: A Case Study of Municipal Landfills in Ramallah-Albireh District.
23. Nasser Samarah (2010) Heavy Metals Concentrations in Biosolids of Al-Bireh Sewage Treatment Plant and Impacts on Crop Growth and Productivity.
24. Mahmoud Mafarjeh (2010) Feasibility of a Windrow Composting Pilot for Domestic Organic Waste Recycling in Beit Liqia Village-Palestine.
25. Eman Hassan (2010) Understanding the Pathogens-Sludge Bulking Relationship in Al-Bireh WWTP.
26. George Yerosus (2011) Techno-Economic Feasibility of Biosolids Recycling: A Pilot for Biobricks Production.
27. Wessam Arafat (2012) Role of Public Awareness Towards Wastewater Recycled Use Acceptance for Agriculture.
28. Malek Abu Alfeilat (2013) Role Feasibility of Pretreatment Options for the Liquid Waste from Selected Stone Cutting Industries in Hebron District.
29. Firas Mater (2013) Public Private Partnership for Energy and Sludge Management in Jordanian Wastewater Treatment Plants-Madaba a Case Study.
30. Jalal Bsharat (2014) Feasibility of Membrane Based Treatment Technologies for Brackish Water Desalination and Effluent Reclamation in Jericho

18. Ongoing M.Sc. Research Studies:

1. Hala Barhoumi (2012) MYWAS/WEAP Model as a Tool for Water Resources Management in Tulkarm Governorate.
2. Dalia Jaradat (2012) Reality and Challenges of Water Quality Monitoring Policy in Palestine. *Idle*
3. Emil Abdo (2013) Denitrification of Nitrate-Rich Groundwater for Drinking Water Using Whey.
4. Royada Ali (2013) Biogas Production from Poultry Manure Using a Novel Solar Assisted System.
5. Ali Odeh (2014), *potential*
6. Mohmd Abu Ayyash (2014), *potential*

19. M.Sc. Thesis: Research Seminar Track (Selected last 10 years)

1. Mustafa, A., and Al-Sa`ed, R. (2002) Effluent Pre-treatment Options for Tannery Industries in Hebron City: Technical and Economic Aspects.
2. Ghannam, M., and Al-Sa`ed, R. (2003) Disposal Problems and Feasible Treatment Methods of Olive Mill Wastewater in Palestine.
3. Fitiani, A., & Al-Sa`ed, R. (2004) Operation & Maintenance Experiences in Sewer Networks
4. Salah, M., and Al-Sa`ed, R. (2005) Utilization Potential of Treated and Stabilized Sludge from Albireh Wastewater Treatment in Agricultural Purposes.
5. Al-Muhtaseb, I., and Al-Sa`ed, R. (2005) Recycling Feasibility of Domestic Solid Waste: A Case Study of Birzeit Village.
6. Adwan, A., and Al-Sa`ed, R. (2006). The Role of Membrane Technology in Wastewater Treatment in the Mediterranean Region.
7. Judah, W., and Al-Sa`ed. (2006). Evaluation of Biological Processes in Subsurface Flow Constructed wetlands Treating Domestic Sewage: Bani Zaid a case study.
8. Stephan, M., and Al-Sa`ed, R. (2007) Endocrine Disruptor Removal from Wastewater Using Membrane Bioreactor and Membrane Filtration Technology.
9. Salah, M., and Al-Sa`ed, R. (2007) Health impact assessment of treated wastewater and sludge reuse in agricultural applications.
10. Habash, I., and Al-Sa`ed, R. (2008) Environmental Impact Assessment on the Proposed Red Sea - Dead Sea Conduit (RDSC).
11. Halayqa, A., and Al-Sa`ed, R. (2008) Membrane Technology Applications for Water Treatment in Arabian Gulf States. Experts and Literature Database.
12. Nasser, A., and Al-Sa`ed, R. (2009) Environmental Assessment of Cesspits and Septic Tanks Impact on Groundwater.
13. Ramadan, Y., and Al-Sa`ed, R. (2009) Identification and Quantification of Potential Impacts of Onsite Sanitation Systems on Groundwater Wells Using Modeling and Risk Analysis Tools.
14. Qutub, M., and Al-Sa`ed, R. (2010) Economic Analysis of Brackish and Sea Water Desalination Using RO Systems.
15. Hamarshe, F., and Al-Sa`ed, R. (2011) Current status in wastewater treatment, reuse and research in Palestine-A review
16. Musleh, A., and Al-Sa`ed, R. (2012) Peace building projects for joint wastewater management along the Green Line: Post-evaluation of case studies.
17. Abu Baker, S., and Al-Sa`ed, R. (2012). Feasibility of regional facilities for wastewater treatment and reuse on the Palestinian water policy-Tulkarem a case study
18. Taha, M., and Al-Sa`ed, R. (2013) Feasibility of Small Scale Renewable Desalination in the Jordan Valley.
19. Askar, H., and Al-Sa`ed, R. (2014) Potential Applications of MBR Technology in Palestine.
20. Askar, H., and Al-Sa`ed, R. (2014) Feasibility of Retrofitting Alternatives for the WWTP at Birzeit University.