

Hesam Hassan Nejad, PhD, EIT
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Expertise

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| Environmental and Social Impact Assessment (EA) | Environmental Remediation |
| Solid Waste Management | Environmental Consultation |
| Mining Project Waste Management | Life Cycle Assessment |
| Cost Assessment of Mining and Environmental Projects | EA & Technical Writing |

Accomplishments & Qualification Summary

- 5 years of environmental experience performing process improvement on hazardous waste remediation, leading to maximum efficiency, safety enhancement, and reduction in waste; resulting in 2 technical reports and 15 peer-reviewed papers
- Experience on working on different key components of environmental assessment of various solid wastes, and developed respective remediation strategies for their treatment
- 4 years of experience on environmental impact assessment and waste contaminated soil remediation in Canada and 1.5 years of supervisory experience at RIPI providing logistical support to the center manager
- Direct participation (principal investigator, **PI**) on design, development, and optimization of two hazardous materials sampling and treatment processes for solid wastes in Newfoundland and Labrador with collaboration with North Atlantic Refining Limited (NARL) and Universal Environmental Ltd. (two projects, 15000\$ per project by MMSB)

Academic History

PhD in Process Engineering
Memorial University of Newfoundland

2012 – 2018

Masters of Process Engineering
Sharif University of Technology

2009 – 2011

Bachelor of Process Engineering
Tehran Polytechnic

2005 – 2009

Professional Experiences

Research Engineer

2012 – 2017

EOR Environmental Engineering Laboratory

- Responsible for remediation process: Conducted life cycle & environmental impact assessment on drill cuttings and developed a remediation process to meet environmental landfill regulations
- Consultation: Responsible for supporting consultation, providing technical support, and preparing technical documentation for our industrial team
- Environmental impact assessment, hazardous materials sampling, assessment, and treatment: Worked on two different projects on solid waste management and remediation from MMSB (15000\$ per project) including solid waste catalysts and waste drilling mud and soil remediation
- Industrial collaboration: Principal investigator of two solid waste management & contaminated soil remediation projects with North Atlantic Refining Limited & Universal Environmental Ltd.

Environmental/Process Engineer

November 2009 – July 2011

Lubricant Research Centre

Iran Research Institute of Petroleum Industry (RIPI)

- Supervising five technicians and coordinating technical work of lubricant analyses to ensure the work is completed precisely and in a timely manner
- Providing logistical support and consultation to the manager, and responsible for conducting research and supporting consultation to industrial clients (both)
- Writing, compiling and editing reports for the manager of the research center

Awards & Honors

- **2014-15 MMSB Waste Applied Research Fund, 15000\$**

Leslie Harris Centre for Regional Policy and Development
Project: Solid-Liquid Separation of Waste Petroleum Drilling
Mud

➤ **2013-14 MMSB Waste Applied Research Fund, 15000\$**

Leslie Harris Centre for Regional Policy and Development
Project: Solid Waste Spent Catalyst Recovery from North
Atlantic Refinery's Petrochemical Plant

Software and Certificates

- Aspen Plus
- Microsoft Office (Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Outlook, Microsoft Visio)
- EsDat (Preliminary Knowledge)
- Design Expert
- Standard First Aid / CPR Level C / AED

Affiliations & Professional Memberships

- American Institute of Chemical Engineers (AIChE)
- Newfoundland Environmental Industry Association (NEIA)
- Society of Petroleum Engineers (SPE)