



Ali Asghar Dehghani Zadeh

Researcher and Senior Chemical Engineer

DoB: 1997

Marital Status: Single

Researcher and senior chemical engineer with over 10 years of experience in scientific research and the development of chemical processes. Possesses outstanding abilities in designing and optimizing experiments and data analysis. Proficient in specialized software and skilled in teamwork and managing research projects. Successful track record of collaborating with international teams and presenting scientific papers at reputable conferences. Committed to advancing innovative technologies and solving complex challenges in the chemical

Contact

✉ aliasghardz.chemi@gmail.com

☎ (+98)9196386894

🌐 www.aliasghar-dehghanizadeh.com

📍 Tehran, Iran



Skills

Adsorption

60%

ICDL

60%

Modeling and Simulation

60%

PDMS

40%

Aspen Plus

60%

Aspen HYSYS

60%



Social Network



aliasghar-dehghanizade-5a3a37222?

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Certificates

Process Design

Institute: Namatek Institute (Instructor: Engineer Reza Asgari)

2022



Education

Bachelor of Chemical Engineering

Institute/University: Qom University

Qom, Iran

2017 - 2022

Master of Chemical Engineering

Institute/University: Tarbiat Modares University

Tehran, Iran

2022 - 2026



Work Experience

Intern

Nafte Baharan

Tehran, Iran

2021 - 2021

Tasks and Achievements

- Analyzing and reviewing data using specialized software and providing detailed reports
- Collaborating with various teams on research and development projects
- Training and supporting users in the use of software systems
- Participating in organizing workshops and training sessions to enhance team skills
- Preparing technical documentation and updating it based on project needs

Researcher at the Oil Industry Research Institute of Tehran

Petropalatous Company

Tehran, Iran

2023 - 2023

Tasks and Achievements

- Research and development in the field of innovative oil and gas technologies
- Analyzing scientific and economic data related to the oil industry
- Collaborating on international projects aimed at improving oil production performance
- Managing and conducting field tests to evaluate new technologies
- Preparing technical and scientific reports for submission to relevant authorities and conferences

Process Simulation

Institute: Namatek Institute (Instructor: Dr. Amir Behroozi)

2022

Python Programming Language

Institute: Namatek Institute (Instructor: Engineer Morteza Behboudi)

Industry Language

Institute: Namatek Institute (Instructor: Engineer Farzad Lotfi)

2022



Projects

Thermodynamic Modeling of Adsorption Isotherms in Solid-Liquid Systems Using Local Combining Models

For: Tarbiat Modares University

2024

Smart Cream Maker Device for Pharmaceutical Applications

2025

Nano Electrospinning Device with Fully Independent Cartridges

2025

PuraSense - Smart System for Detection and Optimization of Pollutant Adsorption in Industrial Wastewater Treatment



Honors

Membership in the International Federation of Inventors of Geneva, Switzerland 2024

2024

Link: <https://ifia.com/IR2024JUL2106AXZ/>

First Place and Gold Medal at the Invention Festival of the Geneva Federation of Inventors 2024 for the invention of the Smart Cream Maker Device

2025



Control Room Operator

International Pars Product Industrial Group

Tehran, Iran

2023 - 2024

Tasks and Achievements

- Monitoring the performance of systems and equipment in the control room with high accuracy
- Identifying and resolving technical issues in real-time to maintain system efficiency
- Preparing daily and monthly reports on system performance and presenting them to managers
- Collaborating with technical teams to improve processes and increase productivity
- Training new operators in the use of control software and equipment

Research and Development Engineer

Dream of Lasting Smile

Tehran, Iran

2025 - Present

Tasks and Achievements

- Designing and implementing research projects in the field of innovative technologies
- Analyzing research-related data and providing technical reports to management
- Collaborating with multidisciplinary teams to develop new products
- Managing and overseeing various tests to evaluate product performance
- Providing optimization solutions in research and development processes

Senior Research and Development Specialist

Research Department of Chemistry and Nanomaterials of Ideatech Accelerator

Isfahan, Iran

2024 - Present

Tasks and Achievements

- Designing and executing research and development projects to improve new and existing products
- Analyzing data and providing accurate reports to support strategic decision-making
- Collaborating with interdisciplinary teams to identify innovation opportunities and improve processes
- Managing and overseeing research and development programs to ensure compliance with standards and timelines
- Training and guiding team members in research and development areas to enhance skills and technical knowledge

References

Mohammad Reza Ashkboosi

Manager of Ideatech Accelerator

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First Place and Gold Medal at the Invention Festival of the Geneva Federation of Inventors 2024 for the invention of the Portable Nano Electrospinning Device
2025

First Place and Gold Medal at the Invention Festival of the Geneva Federation of Inventors 2025 for the invention of PuraSense - Smart System for Detection and Optimization of Pollutant Adsorption in Industrial Wastewater Treatment
2026

Link: <https://ifia.com/international-competition-for-inv-members/>

Rozbeh Parchami

Faculty Member of Isfahan University (Industrial Design)

roozbehparchami.id@gmail.com