

# Senior Process Engineer

A process engineer with hands-on experience in simulation, basic design, CFD & equipment sizing

## ARASH RAFATI

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## Skill Highlights

- Hands-on Simulation of Sulfur Recovery Units (SRU) and Tail Gas Treatment (TGT) Units. Hydraulic Calculation & Equipment Sizing.
- Working experience in Computational Fluid Dynamic (CFD)
- PROMAX, ASPEN HYSIS, ASPEN PLUS, CFX experience
- Working knowledge of VBA(Excel), MATLAB, AutoCAD, Primavera

## Languages

English (Professional Working)

## Experience

July 2015 - Present

### Senior Process Engineer- Research Institute of Petroleum Industry (RIPI)

- Process Simulation of Sulfur Recovery Units (SRU) & Tail Gas Treatment (TGT) Units for Several Oil and Petrochemical Companies in Iran.
- Basic Design of SRU, TGT Unit, Hydrogen Plant & Amine Unit.
- Basic Design of Flare Gas Recovery (FGR).
- Pressure Safety Valve (PSV) Sizing.
- Project Control.

May 2013 – July 2015

### Head of Catalyst Department- Nitel Pars Company (Fateh Group)

- Feasibility Study of FCC & RFCC Catalysts production, under License of Chinese Manufacturer in Iran.

## Education

2007-2009

### Master of Science: Chemical Engineering- Sistan and Baluchistan University.

2004-2007

### Bachelor of Science: Chemical Engineering - Semnan University.

## Awards

Top graduate of Sistan & Baluchestan University.

## Publications

### CFD Studies of Pressure Drop and Increasing Capacity in MellapakPlus 752.Y Structured Packing.

Aug, 2011- *Chemical Engineering & Technology (CET)*-Wiley  
(<https://onlinelibrary.wiley.com/doi/abs/10.1002/ceat.201000557>)

### Prediction of the Effective Area in Structured Packings by Computational Fluid Dynamics.

Aug, 2011-*Industrial & Engineering Chemistry Research (I&EC)*  
(<https://pubs.acs.org/doi/abs/10.1021/ie200088d>)