

## Zhao Wennan

### OBJECTIVE

An engineering position requiring experience in chemical industry

### QUALIFICATIONS

- **B. Eng.** and **M. Eng.** in chemical engineering
- Result-oriented process engineer with 5 years experience in process design, basic engineering and detailed engineering for chemical plant
- 3 years work experience as a senior research engineer at Institute of High Performance Computing
- Responsible, team-player and hard-working

### PROFESSIONAL EXPERIENCE

#### Senior Research Engineer

March 2000–Present

*Division of Computational Fluid Dynamics, Institute of High Performance Computing  
Singapore 118261*

- Numerical approaches to heat transfer and fluid flow problems
- Have a range of experience in applying CFD and numerical engineering skills in a commercial environment using one of the major CFD programs (CFX, Fluent)
- Exploitation of CFD approach for process equipment design, such as the impinging jet, spray cooler and heat exchanger.
- CFD application in building and tunnel ventilation, fire & smoke modelling

#### Process Engineer

Aug. 1992–Sept. 1997

*Process Department, Nanjing Chemical Industrial (Group) Design Institute (NCIDI)  
Nanjing P. R. China 210048*

- Conducted Process design, Basic engineering and Detailed engineering for chemical plant
- Responsible for process calculation which include material balance, heat balance for whole process and each equipment
- Determined process parameter and prepared process manual
- Prepared plant layout, PFD and P & ID
- Participated in the equipment design and specification
- Conducted pipe sizing and material selection, pump type and capacity selection, valve type and size selection
- Interfaced with other disciplines such as instrumentation & control (DCS, PLC), civil, equipment & machinery and electric
- Provided technical support during plant construction, installation, commissioning and start-up

## EDUCATION

**Master of Engineering** in Chemical Engineering 2000  
*National University of Singapore, Singapore 119260*

**Bachelor of Engineering** in Chemical Engineering 1992  
*Beijing University of Chemical Technology, Beijing, P. R. China*