

CEO Profile

| Dr. Tae-Yun Park

Education

- **Laboratorium Voor Petrochemische Techniek (LPT), Universiteit Gent** - Gent, Belgium
- Ph.D. IN Chemical Engineering, 1998
- **Pohang Institute of Science and Technology (POSTECH)** - Pohang, South Korea
- Master of Science in Chemical Engineering, 1992
- **Korea Advanced Institute of Science and Technology (KAIST)** - Daejeon, South Korea
- Bachelor of Science in Chemical Engineering, 1990

Work Experiences

- **Lab. voor Petrochemische Techniek (LPT)** - Gent, Belgium | Research Fellow (1992 ~ 1998)

MTO Reaction Network.
Single-Event Kinetics.
Linear Free-Energy Relationship.
Quantum Chemistry Application.
Hybrid Genetic Algorithm Application.

- **Catalytica Energy Systems, Inc** - California, Mountain View | R&D Engineer (1999 ~ 2001)

PrOx Kinetics and Reactor Model.
Water-Gas Shift.
Steam Reforming.
NOx Storage-Release.

- **SABIC Americas, Inc** - Texas, Houston | Process Engineer (2001 ~ 2005)

Propane Aromatization (Cyclar).
Vinyl Acetate Monomer (VAM).
Methyl Methacrylate (MMA).

Key Achievements

- Win Research Awards of \$11,169,000 from Department of Energy in United States.
- "Plate- Reactor Based Fuel Processing System", United States Provisional Patent Application.
- Published 15 papers in world's leading scientific journals.



Dr. Tae-Yun Park is the founder, CEO, and president of ChemEssen. He earned his B.S. from KAIST, and M.S. from POSTECH, South-Korea, both in Chemical Engineering. He received his Ph.D. from University of Ghent, Belgium under the direction of world-famous Professor Gilbert F. Froment.

After completing Ph. D. in 1998, Dr. Park moved to the US and worked for the major chemical companies for more than 6 years. Based on these experiences, he started up ChemEssen in 2006 in Seoul, South-Korea with the vision of next-generation database and software system.

Dr. Park is a specialist for chemical process development & optimization, and catalytic reactor design & analysis. He developed many chemical reactors and processes for industrial applications. From quantum chemistry to fluid dynamics, from atoms to commercial chemical plant, his work is firmly based on fundamental understanding of complicated phenomena in chemical applications.

Dr. Park is the author of over 15 international scientific publications and holds 41 patents in the area of chemical property estimations and commercial applications, and won a R&D fund of more than \$11 million USD from the US Department of Energy in 2001.