Our Chemistry Is You

Ticona
Performance Driven Solutions™

Celanese Corporation is a global technology leader in the production of specialty materials and chemical products which are used in most major industries and consumer applications. Our products, essential to everyday living, are manufactured in North America, Europe and Asia. Known for operational excellence, sustainability and premier safety performance, Celanese delivers value to customers around the globe with best-in-class technologies. Based in Dallas, Texas, the company employs approximately 7,250 employees worldwide and had 2010 net sales of $5.9 billion, with approximately 72% generated outside of North America.

Ticona is a business of Celanese Corporation and a leading global producer of technical polymers primarily used in the automotive, electrical and electronic industries.

For our Ticona R&D department in Frankfurt-Höchst, Germany, we are looking for a

R&D Process Chemical Engineer (m/f)

Responsibilities:

- Responsible for the development of new process technologies for monomer and polymerization processes
- Work closely with research chemists, product developers, plant engineers, and pilot plant personnel to perform the following functions:
  - Investigate potential new chemical routes and process technologies for the production of high performance polymers
  - Drive the design, installation, and start-up of next-generation lab and pilot scale process technology
  - Develop and refine kinetic, thermodynamic and reactor models for monomer and polymerization processes to enable higher capital efficiency, productivity, product consistency and product flexibility
  - Develop process simulations and use them to define initial material and energy balances.
  - Develop preliminary capital costs for plant and equipment
  - Drive process development rigor to improve process cost situation and implement new technologies in the manufacturing processes.

Profile:

- Ph.D. in Chemical/Process Engineering. Previous experience in an industrial R&D organisation is an advantage.
- Strong background in fundamental engineering principles including heat & mass transfer, unit operations, reaction engineering, fluid mechanics and modelling
- Familiarity with
  - reactor design and process considerations for batch and continuous production systems
  - the use of process simulation tools for complex chemical processes
  - polymer chemistry and rheology
  - statistical tools and design of experiments
  - chemical analysis and material characterization techniques
  - pilot plant design and operation
- Strong work ethic, results-orientated.
- Excellent team and communication skills

We offer:

A comprehensive compensation and benefits package combined with good career development opportunities in an international group. If you are interested in this challenging and varied job and would enjoy working in a dynamic environment, please apply online **in English** via our career page on www.beinyourelement.com



www.celanese.com