Industrial Biotechnology at DuPont India

E. I. du Pont de Nemours and Company is expanding its technical and engineering capabilities and is locating a Research and Development facility within its wholly-owned subsidiary, DuPont India, in Hyderabad. As part of this plan, we are establishing an Industrial Biotechnology Research and Development group, which will focus on a broad range of activities associated with the production of fuels, chemicals, and materials from renewable resources using modern tools of molecular biology, biochemistry, and fermentation sciences. DuPont has recently been named one of the best employers in the biotechnology and pharmaceutical industry in the 2007 Science Magazine Top Employers survey.

Presently we are looking for self-motivated and energetic individuals with relevant backgrounds to become a part of this exciting global R&D effort based in India.

RESEARCH SCIENTIST/PRINCIPAL INVESTIGATOR

BIOCHEMIST

The successful candidate will use knowledge of biochemistry while working in teams to develop biocatalytic routes for making chemicals and materials. The role of the biochemist will be:

- To identify potential enzyme catalysts in the design phase of the project, to troubleshoot and to solve problems associated with the function of those enzymes in the process
- To work with molecular biologists to carry out directed evolution by designing and implementing screens for improved biocatalysts, and perform follow-up characterization of hits

Minimum Skills/Qualifications:
- PhD in Biochemistry, Chemistry or a related discipline
- 2+ years of postdoctoral experience
- Advanced knowledge of Biochemistry with emphasis on enzyme function and analysis
- Demonstrated ability in Analytical Biochemistry

MOLECULAR BIOLOGIST

This position involves working in multidisciplinary teams to engineer microbes (bacteria, yeast or fungi) for the economic production of industrial compounds. The successful candidate will have expertise in molecular biology and genetics as well as microbial metabolism and biochemistry. The work may include working with biochemists to evaluate biocatalyst performance, and carry out directed evolution to improve native biocatalysts.

Minimum Skills/Qualifications:
- PhD in Biotechnology, Biochemistry, Biology, Microbiology or a related discipline
- 2+ years of postdoctoral experience
- Advanced knowledge of Molecular Biology

FERMENTATION SCIENTIST

The successful candidate will interact with a larger multidisciplinary group including microbial physiologists, enzymologists, molecular geneticists and engineers in support of metabolic engineering and biocatalyst programs within DuPont. The successful candidate will possess a strong background in biochemistry, analytical chemistry and microbial physiology.

Minimum Skills/Qualifications:
- PhD in Chemical or Biochemical Engineering, Biology, Microbiology or a related discipline
- 2+ years of postdoctoral experience
- Demonstrated ability to design, execute and analyze fermentation experiments

RESEARCH ASSOCIATE

BIOCHEMIST

We seek associate scientists to work in teams to develop biological routes for making chemicals and materials. The role of the associate biochemist is to generate, purify and assay enzyme catalysts in the design and implementation phases of the project. The work may include working with molecular biologists to carry out directed evolution by implementing screens for improved biocatalysts and doing follow-up characterization of hits. The candidate will be expected to maintain expertise within multiple technologies in the areas of biochemistry.

Minimum Skills/Qualifications:
- MS in Biochemistry, Chemistry or a related discipline
- Knowledge of Biochemistry with emphasis on protein purification, analysis of protein purity and expression levels; analytical methods or enzyme activity
- Demonstrated ability in Analytical Biochemistry

MOLECULAR BIOLOGIST

This position involves engineering microbes (bacteria, yeast or fungi) for the economic production of industrial compounds. The work may include working with biochemists to evaluate biocatalyst performance. The candidate will be expected to maintain expertise within multiple technologies in the areas of molecular biology.

Minimum Skills/Qualifications:
- MS in Biochemistry, Biology, Microbiology or a related discipline
- Knowledge of Molecular Biology with emphasis on purification of bacterial plasmids, PCR, primer design, restriction analysis, gel purification, cloning, transformation and growth of bacteria (including preparation of competent cells and electroporation), analysis and manipulation of DNA sequences (e.g. Vector NTI)

FERMENTATION SCIENTIST

The successful candidate will interact with a larger multidisciplinary group including biochemists and molecular biologists, in support of metabolic engineering and biocatalyst programs. The candidate will be expected to maintain state-of-the-art knowledge in fermentation science and maintain expertise within multiple technologies in the areas of biocatalysts and metabolic engineering.

Minimum Skills/Qualifications:
- BS/MS in Chemical or Biochemical Engineering, or BS/MS in Biology, Microbiology or a related discipline
- Demonstrated ability to execute and analyze fermentation experiments

For all research scientist/principal investigator positions, the person shall be expected to maintain state-of-the-art knowledge in Biochemistry/Molecular Biology/Fermentation Science and integrate that into DuPont programs where appropriate; and to maintain expertise within multiple technologies in the areas of biocatalysts and metabolic engineering.

For all the above positions, the candidate will be expected to participate in multifunctional research teams; and to communicate effectively with their peers both in Hyderabad and in the US via presentations and written reports. Candidates should also be able to thrive in a fast-paced global research team environment and be committed to the use of biotechnology.

Qualified candidates should apply through DuPont career web-page: http://careers.dupont.com

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