

# Dr. Shanti Swarup Bhatnagar

Indian Colloid Chemist

*Dr. Shanti Swarup Bhatnagar: The Pioneer of Indian Science.* Have you ever wondered how Science and Technology in India grew so rapidly? One of the key figures behind India's scientific progress was Dr. Shanti Swarup Bhatnagar. He was a brilliant Scientist, an inspiring leader, and the founder of India's top research institutions. His contributions to Chemistry and Scientific Development helped shape modern India.


## Early Life and Education


Dr. Shanti Swarup Bhatnagar was born on January 21, 1894, in Punjab, India. Sadly, he lost his father when he was very young. However, his grandfather encouraged his love for Science and Mathematics. As a child, he enjoyed building mechanical toys and solving puzzles.

His interest in Chemistry led him to study Science at Punjab University and later in London, where he completed his Ph.D. in Chemistry. After returning to India, he dedicated his life to advancing scientific research.

## His Contributions to Science

Dr. Bhatnagar was a brilliant Chemist who worked on many practical problems to help industries and the Indian Government. Some of his major achievements include:

 **Developing Water Purification Methods** – He invented a method to treat water in industries, which helped many factories function better.

 **Improving Oil Extraction** – His research helped extract more oil from Indian fields, reducing dependence on foreign oil.



**21 JANUARY 1894 - 1 JANUARY 1955**

## Father of CSIR – Building India's Scientific Future

One of Dr. Bhatnagar's biggest contributions was founding the Council of Scientific and Industrial Research (CSIR) in 1942. CSIR is India's largest scientific research organization, responsible for groundbreaking research in medicine, energy, technology, and more. He also helped set up several national laboratories, such as:

 National Chemical Laboratory (NCL)


 Central Food Technological Research Institute (CFTRI)

 National Physical Laboratory (NPL)

These institutions continue to drive India's progress in Science and Technology.

## Awards and Recognition

Dr. Bhatnagar's contributions were widely recognized. He was honored with:

 Padma Bhushan – One of India's highest civilian awards.

 Fellowship of the Royal Society (FRS) – A top international recognition for scientists.