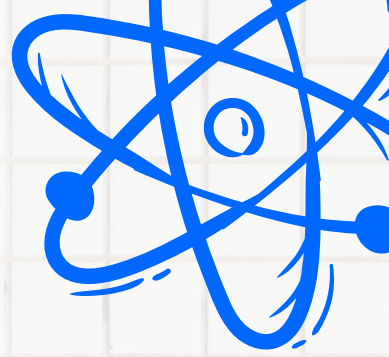


# Homi Jehangir Bhabha



*Homi Jehangir Bhabha (1909–1966) was a prominent Indian nuclear physicist, widely recognized as the "father of the Indian nuclear program". He was instrumental in establishing India's atomic energy program and institutions, which continue to drive India's scientific advancements today.*



## *Early life and education :*

- Born in Mumbai, India, on October 30, 1909.
- Belonged to a wealthy and educated family with connections to prominent businessmen and philanthropists, including the Tata family.
- Initially pursued mechanical engineering at Cambridge University, but soon developed a passion for nuclear physics and switched his focus.
- Earned a Ph.D. in Physics from Cambridge in 1935, specializing in cosmic rays.
- Career and contributions
- Worked with leading physicists of his time, including Niels Bohr, James Franck, and Enrico Fermi.
- Conducted research on cosmic rays and made significant contributions to the field of nuclear physics, including the theory of Bhabha electron scattering.
- Recognized the importance of nuclear energy for India's development and advocated for its peaceful applications.
- Returned to India during World War II and joined the Indian Institute of Science (IISc) in Bangalore as a Reader in the Physics Department.
- Founded two pivotal institutions:
  - Tata Institute of Fundamental Research (TIFR) in 1945: Serving as its founding director and professor of physics.
  - Atomic Energy Establishment, Trombay (AEET), later renamed the Bhabha Atomic Research Centre (BARC) in his honor, Serving as its founding director.
- Served as the first chairman of the Indian Atomic Energy Commission (AEC) and secretary of the Department of Atomic Energy (DAE).
- Played a significant role in the birth of the Indian space program by supporting space science projects funded by the AEC.

## *Legacy :*

- Considered a visionary scientist who laid the foundation for India's scientific self-reliance and energy security.
- His dedication to research and his efforts in establishing India's nuclear program continue to inspire generations of scientists.
- Sadly, his life was cut short in a plane crash on January 24, 1966.

