

# Jagadis Chandra Bose Encyclopedia Article

## Jagadis Chandra Bose

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# Jagadis Chandra Bose

**1858-1937**

Indian physicist who successfully conducted wireless signaling experiments two years before Guglielmo Marconi's experiments on Salisbury Plain. Ahead of his time, Bose was the first to use semiconductor junctions to detect radio waves and invented many now familiar microwave components such as wave-guides, horn antennas, polarisers, dielectric prisms, and semiconductors for detecting electromagnetic radiation. Shortly after presenting his work before the Royal Society in 1897, Bose directed his research efforts towards response phenomena in plants.