

JAMES WEBB SPACE TELESCOPE

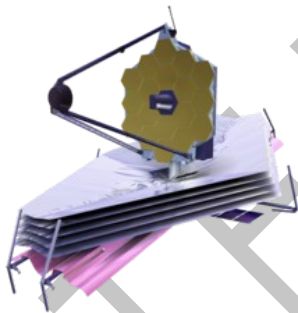
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Technical Trainee at Wings of Aero

Abstract:

The James Webb Space Telescope is the next-generation space telescope. This is the most expensive project of the 3 space agencies. These are NASA, ESA, CSA. This telescope will provide enhanced infrared resolution to the Hubble Space Telescope. This article explains the features and future of the James webb space telescope

Technical Features:



Courtesy: NASA

This telescope has a gold-coated beryllium reflector. The area of the reflecting mirror is 25.4m^2 and 6.5 m in diameter.

The telescope must keep the JWST temperature below 50 Kelvin for monitoring using the infrared spectrum. Otherwise, the infrared radiation coming from the telescope will drown its instruments.

Application of JWST

Primarily this telescope is designed for infrared astronomy. It is an updated version of the Hubble Space Telescope. It can detect the high redshift object. Infrared monitoring is a bit difficult to observe from the Earth's surface, so we use a space telescope.

Future of JWST:

The James Webb Space Telescope detects the first galaxies to form in the early universe and looks through dusty clouds to see the stars that make up planetary systems.

Conclusion:

Light is the mirror of time. This telescope detects light and predicts our previous time.