

Space Photonics Opportunities Abound as NASA Renews Moon and Planetary Exploration

Wiseguyreports.Com Adds "Space Photonics -Market Demand, Growth, Opportunities and Analysis Of Top Key Player Forecast To 2025" to Its Research Database

PUNE, MAHARASHTRA, INDIA, January 6, 2020 /EINPresswire.com/ -- [Space Photonics Industry](#)

Description

The recent ramp-up by NASA as it revitalizes its commitment to the Moon, Mars and other planetary exploration initiatives is providing new opportunities for companies involved in optics and photonics. Astronomy and optics go all the way back to Galileo's telescope, and instruments including the spectrometer date back to the first days of the NASA space program. The potential "spin-off" effects of these activities are the stuff of marketing dreams. Who among us is not delighted by the transition from room-sized valve driven mainframe computers to semiconductors? Or memory foam mattresses, infrared thermometers, freeze dried ice cream, solar cells, Bowflex exercising and water filtration recycling systems? In optics, the tracking system for LASIK eye surgery owes a debt to velocity and range imaging LADAR first used for docking spacecraft.

Unlike the outcomes of the programs leading to the first Moon mission, Mercury-Gemini-Apollo, the program here is far longer lasting and the scope is far greater. NASA's intent is not just to land on the Moon, but to develop the Moon as a launching pad where water and rocket fuel—among other things— can be mined indigenously, and space exploration to Mars and beyond can occur.

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Reports Includes:

- An overview of space photonics opportunities at NASA for revitalizing Moon, Mars and other planetary exploration initiatives
- Coverage of pre-Artemis Moon scientific missions and photonics
- Comparative study on space-made vs. earth-made optical fibres
- Knowledge about Lunar Crater Observing and Sensing Satellite (LCROSS), the Lunar Reconnaissance Orbiter (LRO) and the Lunar Atmosphere and Dust Environment Explorer (LADEE).

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Contact Us: Sales@Wiseguyreports.Com Ph: +1-646-845-9349 (Us) Ph: +44 208 133 9349 (Uk)

NORAH TRENT
WISE GUY RESEARCH CONSULTANTS PVT LTD
+1 646-845-9349
[email us here](#)

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