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Centre for Planetary Science and Exploration

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The goal of the Centre for Planetary Science and Exploration (CPSX) is to make Western University the focus for planetary science and exploration research in Canada, and to establish Western as a leading school for space systems design. The CPSX boasts the largest planetary science research group in Canada, consisting of over 50 faculty members and researchers, 10 post-docs, and 35 graduate students from 10 academic departments across the university.



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James Webb Space Telescope

www.stsci.edu/jwst/

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The James Webb Space Telescope (JWST) is a 6.5-meter space telescope that will be launched later this decade. JWST will study infrared light from the universe with four imaging and spectroscopic instruments. JWST's science goals include answering fundamental questions about the origin of the cosmos and life in the Universe. The telescope is being built by Northrop Grumman Aerospace Systems. With development led by NASA's Goddard Space Flight Center. The Space Telescope Science Institute is the Science and Operations Center for the JWST.

JHU/Applied Physics Laboratory

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The Johns Hopkins University's Applied Physics Laboratory (APL) leads several NASA planetary missions and conducts significant grant-based research on planetary, space, and Earth science interests. APL has built 68 spacecraft and nearly 200 instruments, including New Horizons to Pluto, MESSENGER in orbit around Mercury, STEREO, and the Van Allen Probes to study the radiation belts.

JMARS — Mars Space Flight Facility — Arizona State University

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JMARS (Java Mission-planning and Analysis for Remote Sensing) is a Java-based geospatial information system developed by the Mars Space Flight Facility at Arizona State University. It is currently used for mission planning and scientific data analysis by several NASA missions, including Mars Odyssey, Mars Reconnaissance Orbiter, and the Lunar Reconnaissance Orbiter.

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Expanding our knowledge and understanding of the universe is a challenging endeavor that Lockheed Martin has been actively engaged in for more than five decades. We have developed and deployed numerous spacecraft and products supporting our understanding of Earth and Planetary Science, Heliophysics, and Astrophysics. We're accountable to one standard — 100% mission success. We understand the risks and will not shy away from the hard challenges associated with this mission.

NASA Planetary Science — NASA In-Space Propulsion Technology Program

spaceflightssystem.s.nasa.gov/Advanced/ScienceProject/ISPT/

NASA/Glenn-NASA In-Space Propulsion Technology Program
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Design Your Mission! NASA's In-Space Propulsion Technology program is sponsoring an opportunity to design your mission with the latest in NASA's Mission Design tools. Designers will be available to discuss your concept, potential methods of implementation, and design a notional trajectory to determine delivered capabilities and mission class estimate. The NASA ISPT Project provides advanced propulsion technology for planetary science missions. Technologies include advanced ion propulsion, advanced chemical propulsion, and planetary ascent vehicles, as well as aerocapture and Earth entry vehicles.

NASA Planetary Science

solarsystem.nasa.gov/eyes

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Almost everyone with a computer can now "ride along" with our planetary missions in a video-game like fashion. Using "Eyes on the Solar System," people everywhere can experience NASA and some ESA missions in real time or travel through time viewing missions from 1950 through 2050 using real mission data. New features and operation of NASA's "Eyes on the Solar System" and "Eyes on the Earth" online tools will be demonstrated.

NASA Planetary Science — NASA Radioisotope Power Systems

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The Radioisotope Power Systems Program is an ongoing partnership between NASA and the U.S. Department of Energy to develop the next generation of reliable radioisotope power systems (RPS). The program is working to develop the Advanced Stirling Radioisotope Generator (ASRG) and to maintain the capability to produce the Multi-Mission Radioisotope Thermoelectric Generator (MMRTG), which serves as the power source for the Mars rover Curiosity.

NLSI-Center for Lunar Science and Exploration

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The Center for Lunar Science and Exploration is an integral member of the NASA Lunar Science Institute and is designed to address the highest science priorities identified by the National Research Council for NASA, integrate lunar science with exploration activities to enhance mission productivity, generate expertise to meet the nation's needs, and provide a pipeline of knowledge for students and the public.



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The Geosciences Node of NASA's Planetary Data System (PDS) archives and distributes data related to the study of the surfaces and interiors of terrestrial planetary bodies. We work with NASA missions to help them generate well-documented, permanent data archives. We provide data to NASA-sponsored researchers upon request, make data available using Analyst's Notebooks and Orbital Data Explorers, and provide expert assistance in using the data.

Regional Planetary Image Facility (RPIF) Network

www.lpi.usra.edu/library/RPIF/
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The 17 nodes of the worldwide RPIF Network are NASA-sponsored reference centers for lunar and planetary information, including maps, images, digital data, artifacts, support documentation, outreach materials, and much more.

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The University of North Dakota offers premier online and campus graduate programs in the field of space studies. The M.S. and Ph.D. degrees are interdisciplinary programs, combining space physical science, space life science, space engineering, space policy and law, space business and economics, and space history. The popular online program is ideally suited for professionals who wish to enhance their career opportunities in the space arena.