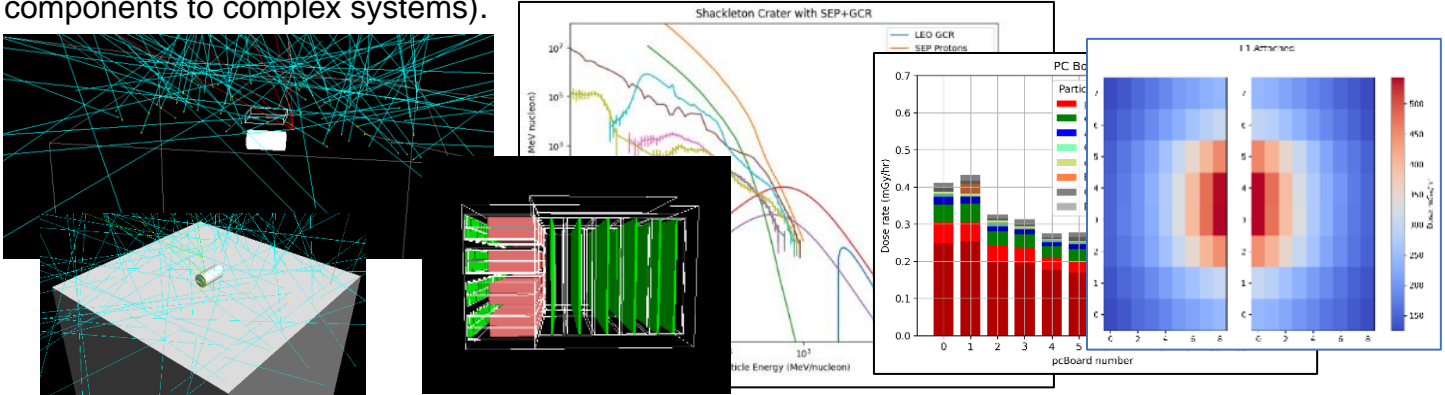


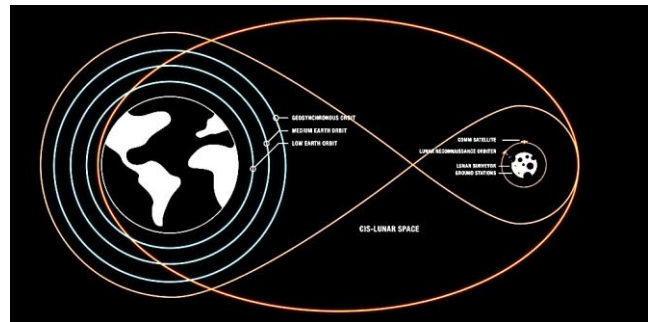
MoonHacker™ Radiation Simulator

MoonHacker™ by Lunar Station offers a full-service radiation simulation solution, where our experts develop digital twins of your spacecraft, landers, or rovers and conduct detailed simulations to evaluate the impact of various natural and human made radiation sources on space hardware (sub-components to complex systems).



Tailored Simulation Services from small to large mission projects:

- **Custom Digital Twin Development:** Our team crafts accurate digital replicas of your space hardware, providing a precise platform for radiation impact analysis.
- **Extensive Environmental Coverage:** We simulate radiation environments associated at any location in space (i.e.: Low Earth Orbit (LEO), Medium Earth Orbit (MEO), Geostationary Orbit (GEO), Lagrange Point 1 (L1), Lunar Orbit, the lunar surface, and beyond) offering a comprehensive perspective on potential exposure scenarios. This includes the detailed modeling of secondary particle cascades, which are critical for understanding the radiation environment in space.



Advanced Simulation Features:

- **Diverse Radiation Modeling:** We can simulate (short-term or long-term) effects from natural sources (Galactic Cosmic Rays and Solar Energetic Particles), man-made nuclear sources, and radioactive minerals, ensuring a thorough understanding of potential radiation threats.
- **Predictive Outcomes and Recommendations:** Based on the simulation results, we provide detailed reports and recommendations to enhance your space hardware design and operational strategies.

Expertise and Reliability:

- **Validated Scientific Models:** Our simulations use advanced models validated by global research communities, including CERN, Fermi Lab, and MIT.
- **Professional Service and Support:** Our team of physicists and engineers offers end-to-end support, from model creation to final analysis, ensuring your project benefits from the highest level of expertise.

Engage with MoonHacker™: Let Lunar Station be your partner in ensuring the safety and longevity of your space missions. For consultations, detailed demonstrations, or discuss your specific simulation needs contact dennis@lunarstation.net; 303.588.5780. Also check us out @ <https://www.linkedin.com/company/lunar-station>

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