

Ames Engineering Directorate

The Ames Engineering Directorate is the principal engineering organization supporting aerospace systems and spaceflight projects at NASA's Ames Research Center in California's Silicon Valley. The Directorate supports all phases of engineering and project management for flight and mission projects—from R&D to Close-out—by leveraging the capabilities of multiple divisions and facilities.

Concept & Mission Development

The Mission Design Center (MDC) has full end-to-end mission design capability with sophisticated analysis and simulation tools in a collaborative concurrent design environment. Services include concept maturity level (CML) maturation, spacecraft design and trades, scientific instruments selection, feasibility assessments, and proposal support and partnerships.

Project Execution

The Engineering Systems Division provides robust project management support as well as systems engineering, mechanical and electrical analysis and design, technical authority and project integration support to a variety of programs and projects across NASA centers.

Manufacturing

The Applied Manufacturing Division turns abstract ideas into tangible hardware for aeronautics, spaceflight and science applications, specializing in fabrication methods and management of complex fabrication projects.

Assembly, Integration & Testing

The Engineering Evaluation Lab (EEL) provides full satellite or payload environmental testing services including vibration, temperature, humidity, immersion, pressure/altitude, vacuum, high G centrifuge, shock impact testing and the Flight Processing Center (FPC), which includes cleanrooms, bonded stores and flight preparation resources.

Mission Operations

The Multi-Mission Operations Center (MMOC) is composed of the facilities, networks, IT equipment, software and support services needed by flight projects to effectively and efficiently perform all mission functions, including planning, scheduling, command, telemetry processing and science analysis.

Contact Us

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National Aeronautics and Space Administration

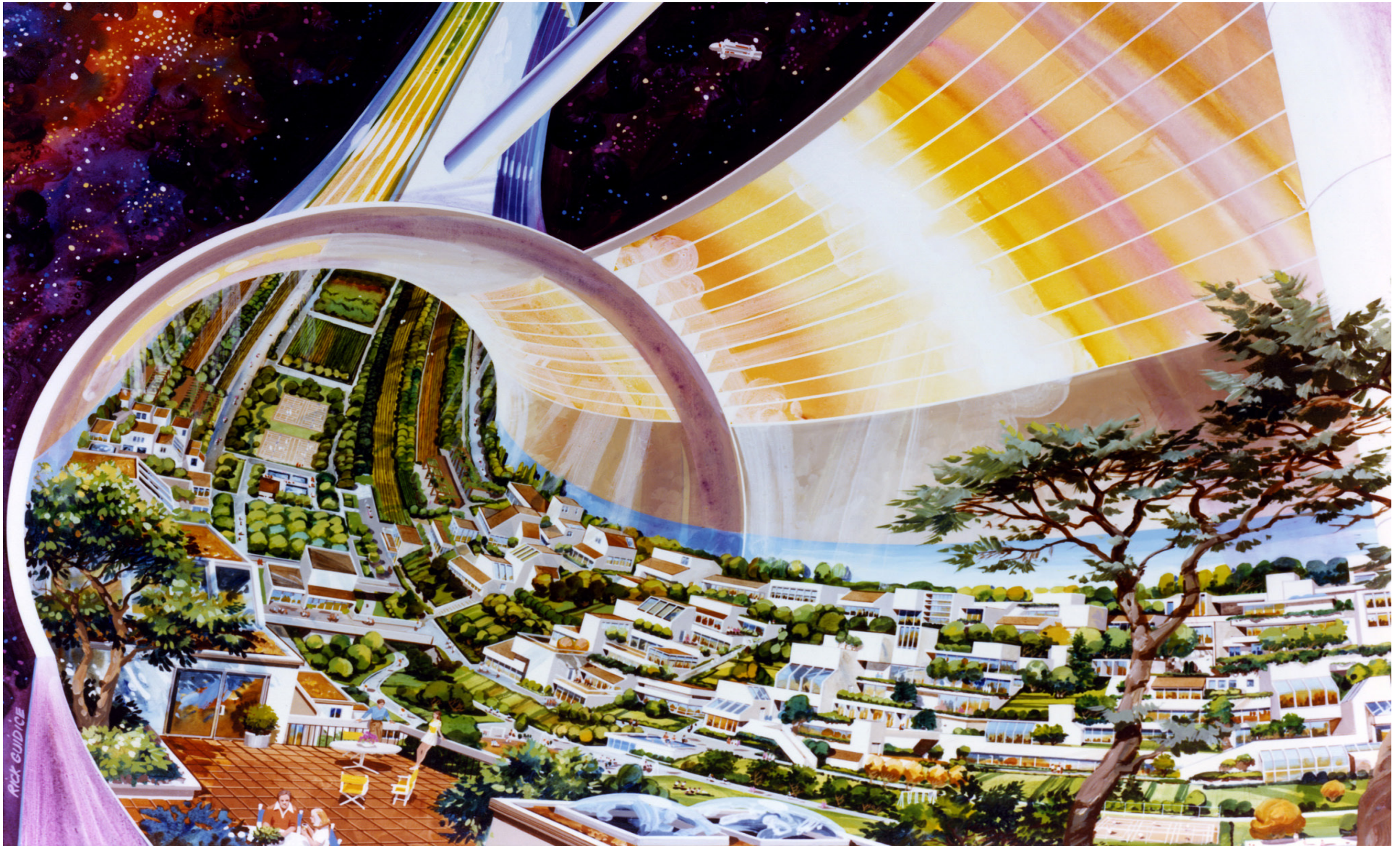
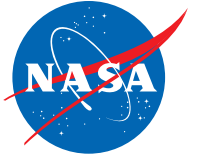
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www.nasa.gov/centers/ames/engineering

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Publication Number





Three space colony summer studies were conducted at NASA Ames Research Center in the 1970s. A number of artistic renderings of the concepts were made, including this one showing a cutaway view of a fictional Toroidal (donut-shaped) Colony.

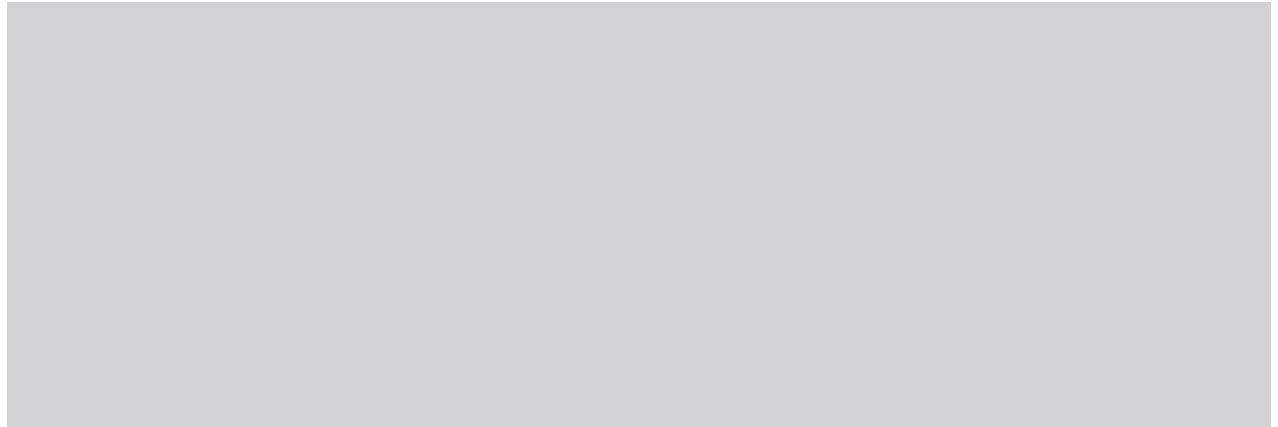
Artist: Rick Guidice

Lithograph Title

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Caption

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First-level Heading

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