

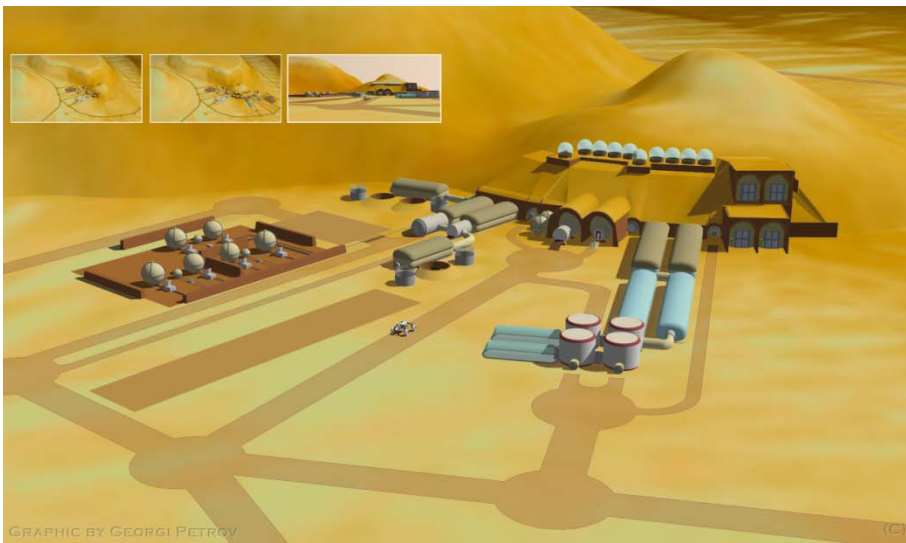


4FRONTIERS[®]
EARTH MARS MOON ASTEROIDS

Program Management

Engineering Services

Education & Outreach



Phone: 727-845-4011

www.4FrontiersCorp.com





4Frontiers Corporation (4FC) is an emerging space commerce company with unique expertise in space facility design and related technologies. The company has access to a broad array of technical and social science specialists that strive for unparalleled realism in modeling the new space frontier.

4Frontiers' core technology development focuses on enabling technologies for space exploration, long-term habitation, and insitu resource utilization. Its activities in three business segments (informative entertainment /education, research & development, and consultancy) give it both the capability to develop innovative space systems and technologies, as well as the ability to translate these concepts into a public format which is engaging, entertaining, and informative.

Who is 4Frontiers?

4Frontiers is headquartered near Tampa, Florida, and consists of a local management and technical team, as well as a diverse network of consultants and technical specialists.

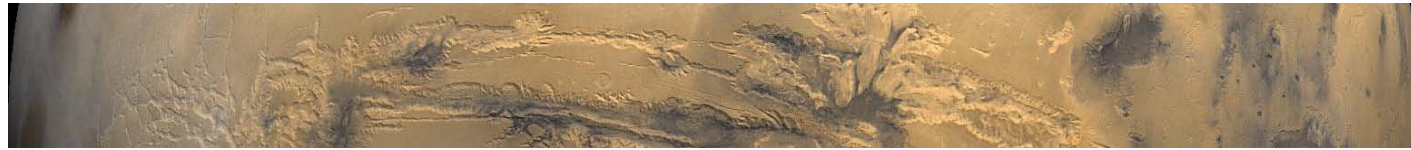
Have a technology challenge to overcome?

Looking for a cost effective and expedient way to fill gaps in your company's technical knowledge base?

In need of program management or strategic planning services?

4Frontiers Corporation seeks to leverage our technical knowledge base through our consultancy service and assist customers having need of our unique technical capabilities.

- Space Facility / Infrastructure: Planning & Design
- Feasibility Studies, Detailed Design, Implementation
- Tech / Product Development & Commercialization
- Custom or Unique Applications & Systems

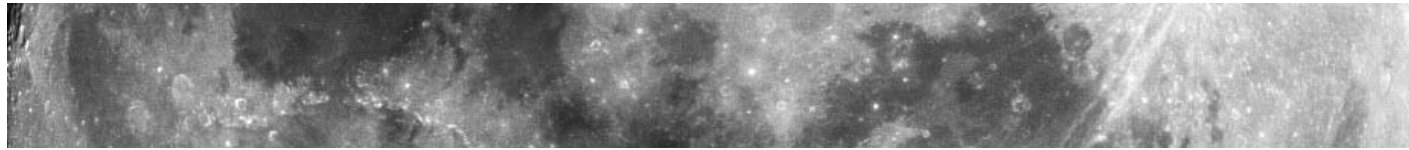


Space Facility / Infrastructure: Planning & Design

4Frontiers can provide comprehensive planning & design services to flesh out your space facility, infrastructure, or mission concept. These services can include:

- Detailed conferencing with client to fully define requirements and scope.
- Appropriate staffing to support unique technical knowledge needed for a particular facility or mission.
- Program management from project conception through completion.
- Generation of space and utility matrices, materials lists.
- Generation of pre-design concepts.
- Modeling, simulation and analysis.
- Staging, construction and implementation schedule and budget analysis.
- Generation of conceptual artwork and visualizations.
- Generation of technology development / engineering roadmaps.
- Assessment of intellectual property and potential for technology commercialization.
- Assembly of produced materials for delivery to, and optimal use by, our client.
- Recommendation of follow-on efforts.





Tech/Product Development & Commercialization

4Frontiers can provide a range of services to assist in the design, prototyping, testing and commercialization of your technology concepts and new products. Technology areas could include:

- Resource extraction and utilization systems, including mining, refining & manufacturing
- Power systems
- Life support systems
- Data, control & handling systems
- Agricultural equipment and support
- Mechanical & mechatronic engineering, robotic systems, process automation
- Drilling systems
- Non-space technology development

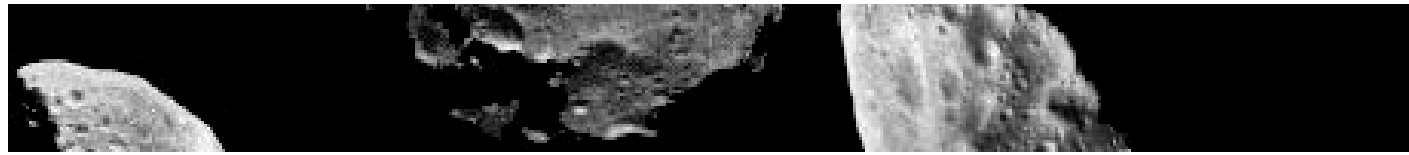
Custom or Unique Applications & Systems

Please contact us with custom or unique applications and systems with which you need assistance. We would be happy to discuss these with you, finding solutions to fit your needs.

Technologies for Earth and Beyond

The technology needs of the expanding space economy, will continue to mature and require multidisciplinary experts and teams. The 4Frontiers research and development program adapts and extrapolates well-developed terran technologies as well as new ideas to support emerging space commerce.

4Frontiers can offer development and testing of a wide range of space-related activities on Earth using simulation, allowing accurate prototype testing under all conditions except lower gravity. Near-term development will proceed using established mathematical and computer models to compensate for the gravity difference. 4Frontiers' consulting capabilities will expand into selected breakthrough technologies, private survey missions, and low-gravity testing as the program matures.



Detailed Consultant Skill Sets

4Frontiers has engaged a strong team of researchers; consisting of scientists and engineers in numerous technical areas. While our network provides access to a range of disciplines and skills not listed here, the following represents the skill sets of technical consultants immediately available to be assigned to your project.

- **Agricultural Sciences** – Agronomy, Agriculture, Horticulture, Greenhouse Cultivation, Hydroponics, Soil, Water Treatment / Remediation, Vegetables, Ornamentals, Plant Pathology, Plant Stress, Plant Physiology, Biochemistry, Toxicology, Microbiology, Biotechnology, Fertilizer
- **Aquaculture** – setup, systems design, operations
- **Artistic Rendering** – painting, drawing, computer art, and other art forms.
- **Design & Drafting** – mechanical & architectural design, using Solidworks, Inventor & Autocad.
- **Electrical Engineering** – circuit design, analysis, and testing... including at radio frequencies for plasma applications, control systems.
- **Engineering technician services** – lab experiment setup and data collection, schematic generation, use of test and measurement equipment.
- **Environmental Studies** – including environmental impact assessments. Development of nuclear waste disposal systems and sites as well as storage of spent fuel.
- **Materials Science & Engineering** – synthesis & mat. production.
- **Mission Planning** – detailed analysis and design of mission.
- **Nuclear Engineering** – development of fuel and core concepts for power including control, as well as plant heat transfer systems with particular emphasis on safety issues and safety systems. Regulatory issues.



- **Scientific Writing, Reporting, Technical Editing** – Technical and non-technical and preparation of effective presentations. Historical issues.
- **Social Sciences** – Psychology, social science research design, methodological and statistical analyses, research data organization and management, psychosocial group dynamics assessment, stress, coping and performance assessment, astrosociology, (social scientific approach to space activities), applied astrosociology (applying astrosociological knowledge to practice), general sociology.
- **Software Engineering** – software integration, artificial intelligence, spatial (2-D, 3-D) software algorithms, software / project complexity analysis, software simulations (SPH, N-body) and software development (UNIX / Linux, C/C++ / Java / Fortran / IDL / Matlab / CLIPS)
- **Website Development** – html, php, databases, javascript, Flash & more



Education & Informative Entertainment

At 4Frontiers we pride ourselves in the ability to translate detailed and complex technical concepts into a form suitable for consumption by the general public. Our specialists can assist you in executing a wide range of projects, including providing technical support for movies, television programs, or theme parks and other attractions.

Our extensive network provides us access to the specialists you need to answer your technical questions and provide the level of realism demanded by today's science and technology literate audience. A number of noted science fiction authors work with the company, and can provide custom fictional literary works. Artists, illustrators and designers are also members of the 4Frontiers team, and can provide technically accurate and stunningly detailed visualizations. We also have experts to assist in the generation of unique education packages and materials.

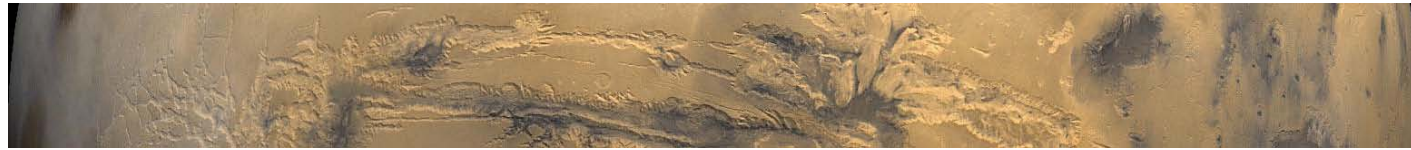


For more information on 4Frontiers consultant services please contact:

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4Frontiers Selected Projects

4Frontiers has successfully executed multiple projects since the company was founded in 2005. It also is actively pursuing several current initiatives. Some of these projects and initiatives include:

- **Gen II Mars Settlement Design** – Engaging over 30 engineers and scientists, this effort has revolutionized our understanding of Mars facility and infrastructure required to establish the first permanent human presence.
- **Orbital Facility Feasibility Study** – Leveraging our space facility design experience, 4Frontiers has been engaged to provide program management services for an initial study of a piece of orbital space infrastructure.
- **Florida Space Education Initiative** – Working with science supervisors from several Florida counties, 4Frontiers is creating a custom curriculum package with a Mars theme. This package addresses key FCAT weakness areas and uses Mars exploration as a method to convey knowledge and to get students excited about future careers in the space industry.
- **Radio Frequency Engineering Consultant Contract** – 4Frontiers provided consulting services to a Radio Frequency power supply manufacturer over the course of a six-month contract (now complete).

- **Crazy4Mars.com Children’s Story Initiative** – Engaging a dozen authors, artists and editors, 4Frontiers has created six new short stories for children - sharing the adventures of the first family to live on Mars with a focus on real science.
- **Space Themed Toy Initiative** – Several new space-themed products have been developed by 4Frontiers designers and artists, and are being actively proposed through an agent to various toy manufacturers.
- **Interactive 4Frontiers Websites & Webstore** – An expanding and evolving set of websites have been created, including a corporate site with a wealth of technical information, an interactive children’s website and an online marketplace offering space merchandise.
- **MarsBase1™ Reality TV Show** – Working with a Hollywood agent, 4Frontiers is presently seeking partners and sponsors for a reality TV show involving teams competing in a simulated Mars habitat and environment.
- **Mars Habitat Traveling Exhibit** – A spin-off project of the Reality TV show, the exhibit would include a full-scale, walk-through, Mars habitat mockup.
- **Informative Entertainment Center** – This is a long-term project, which includes a full-scale mockup of the first permanent Mars settlement, to serve as a tourist attraction and research center.