

Transversal competencies



MEDES

Created in 1989, **MEDES** is the **Institute for Space Medicine and Physiology**, a subsidiary of the French Space Agency (CNES) and Toulouse hospital.

The activities are focused on space physiology and medicine, clinical research and dual innovations, which may benefit both to space exploration and health, in particular in the field of digital Health.

MEDES staff combines multi-disciplinary experts with various skills from medical doctors, pharmacists, physiologists and nurses to IT Engineers and biomedical engineers.

COMPETENCIES & CAPABILITIES

Support for space missions: Expertise and services (i) to support space agencies for crew health maintenance - operational space medicine services (medical follow-up of astronauts), (ii) to support space experiments or technology demonstrations/evaluations in the field of health, (iii) to support astronaut medical selections.

Clinical studies: Conduct of complex clinical studies at international level, both for space and for the non-space field with studies to simulate the effects of weightlessness (e.g. Bed rest et dry immersion studies) in particular to evaluate countermeasures for international space agencies and various clinical studies to evaluate equipment or for medical research.

Application and innovations between Space and Health: Acceleration and promotion of innovations for Health on Earth and in Space, with a specific focus in the field of digital Health.



MEDES

PRODUCTS & SERVICES

- **Expertise and services in the field of space physiology and medicine**
 - * For astronaut medical selections
 - * For crew health maintenance (medical follow-up) in the frame of human spaceflights
 - * For performing advanced R&D thanks to space environment with services to support the design, preparation and performance of space experiments or technological evaluations in space in the field of health.
- **Expertise / services and infrastructure to support clinical research for space and for the non-space field.** MEDES operates a clinical research infrastructure (MEDES Space Clinic) with:
 - * Services to design clinical evaluations.
 - * Services / Infrastructure to perform clinical studies simulating the effects of weightlessness to evaluate countermeasures including physical, nutritional or pharmaceutical prevention means.
 - * Services / Infrastructure to perform clinical studies to evaluate equipment or for medical research purposes.
 - * Medical expertise to support companies willing to propose innovations in the field of health
- **Expertise and services to support innovations between space and health in particular in the field of digital health (project management, expertise and support for innovations in eHealth, telemedicine)**
- **Solutions to support flexible data collection including the DATAMIA solution (www.datamia.io)**

MAJOR SPACE PROJECTS & REFERENCES

- Weightlessness simulation / Dry immersion study. 2019.
- Weightlessness simulation / Bed rest “Cocktail” study. 2017.
- Participation to Proxima Space mission – 2017.
- Everywear – Mobile medical assistant - 2015-today.
- Deployment of a sustainable network of telemedicine in French Guiana- 2000-today.

POINT OF CONTACT

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TURNOVER 3,8 M€

WORK FORCE 30 employees