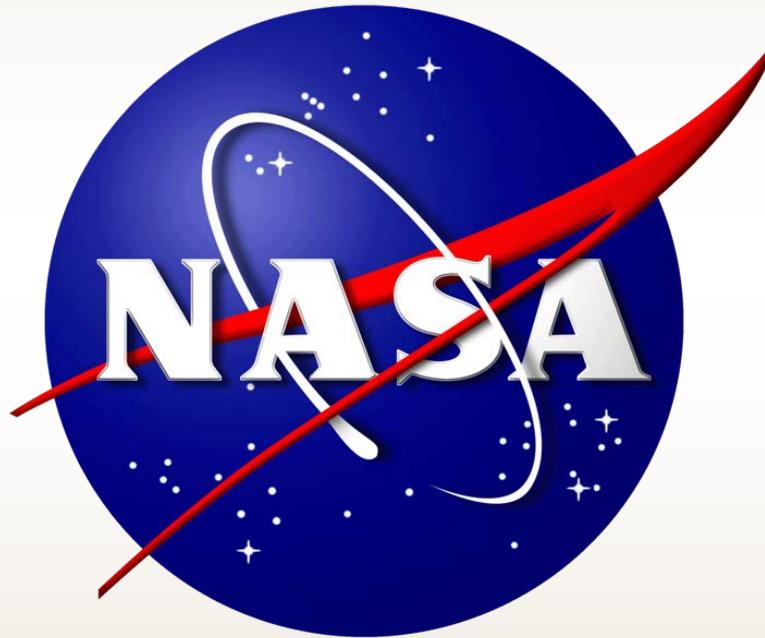


**Welcome to the
Johnson Space Center
Human Health and Performance Contract (HHPC)
Industry Day**



**July 21, 2014
Gilruth Center - Alamo Ballroom**



Welcome to the Human Health and Performance Contract (HHPC) Industry Day

Roger Roberts
Contracting Officer

Agenda



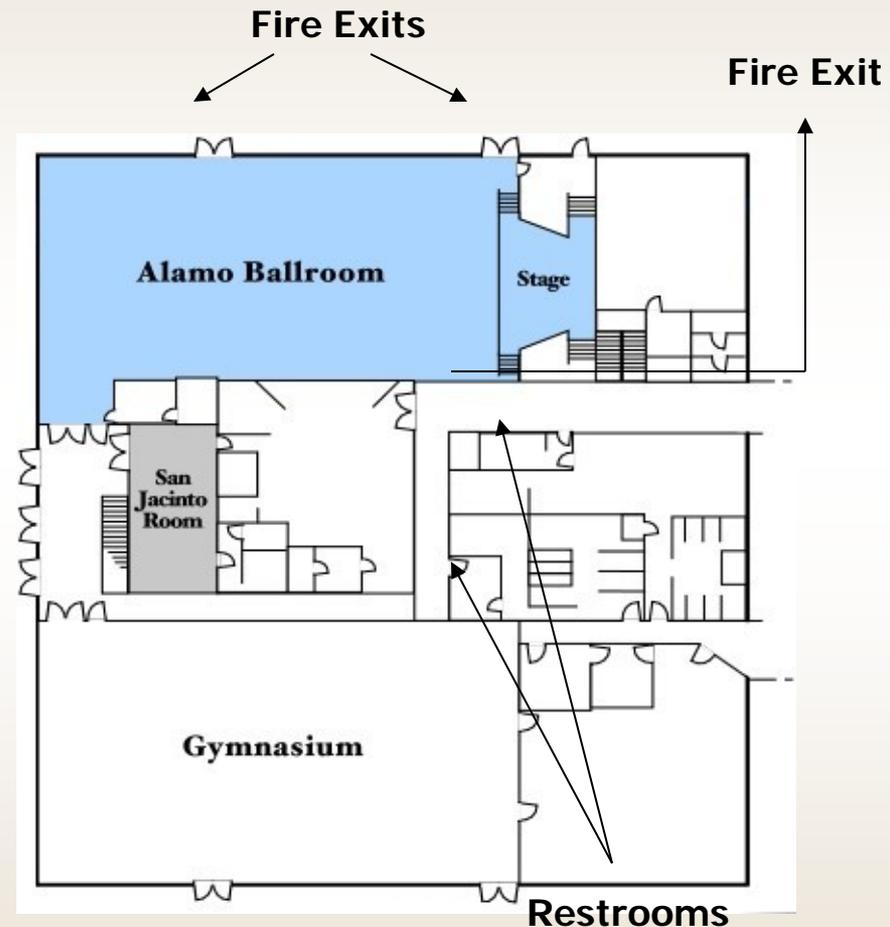
Speaker	Subject
Roger Roberts, Contracting Officer	Welcome to Industry Day
Debra L. Johnson, Director, Office of Procurement	Welcome
Roger Roberts , Contracting Officer	Current and Anticipated Contract Overview
Jeff Davis, MD, Director, Human Health and Performance Directorate (HHPD)	HHPD Overview
Charles Williams, Small Business Specialist	Small Business Overview
Richard Lee Procurement Development Team (PDT) Chair Jonathan Dory (PDT) Technical Lead	HHPC Technical Overview
Roger Roberts, Contracting Officer	Question/Answer Session

Safety and Administrative Information



Restrooms can be found in the hallway outside this ballroom.

Fire exits are at the front entrance and side exit doors. In the event of a fire, you must move at least 75ft. away from the building.



Disclaimer



- These slides are for information and planning purposes only. No solicitation exists at this time.
- This presentation shall not be construed as a commitment by the Government or as a comprehensive description of any future requirements.
- If a solicitation is released, it will be synopsised in the FedBizOpps website and on the NASA Acquisition Internet Service (NAIS).

Goals of Industry Day



- Promote competition on the proposed acquisition
- Develop industry understanding of the Government's current vision and objectives
- Provide industry with the opportunity to meet with the Government early enough in the procurement process to provide input into the HHPC procurement strategy
- Encourage offerors to submit questions and comments in writing via the HHPC website or in person during Industry Day. The Government will respond in writing to all questions submitted by posting them to NAIS and the HHPC procurement websites.

Responses to Questions



- Questions submitted either electronically or in writing will be answered and posted to NAIS and the HHPC procurement website and will be considered official responses.
- Verbal responses to questions during One-on-One Communications with Industry will not be considered official. If a difference exists between verbal and written responses to questions, the written responses shall govern.
- Questions during One-on-One Communications with Industry should be limited to the HHPC's mission, capabilities, and current requirements. Questions about the procurement strategy will not be answered during One-on-One Communications with Industry.



Welcome

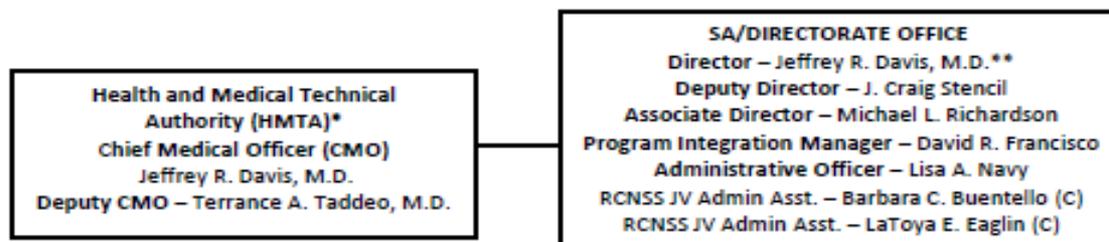
Debra L. Johnson
Director, Office of Procurement



Human Health and Performance Directorate (HHPD) Overview

Jeffrey R. Davis, MD
Director, HHPD

Human Health and Performance Directorate



* NASA Chief Health and Medical Officer provides HMTA and Medical Policy Board oversight

** Also reports to Associate Administrator, HEOMD as Director, NASA Human Health and Performance Center and Deputy Director, Center of Excellence for Collaborative Innovation

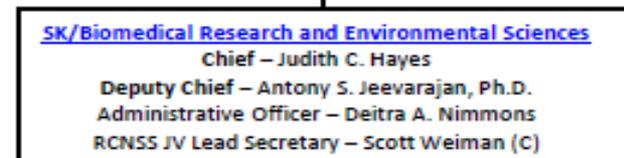
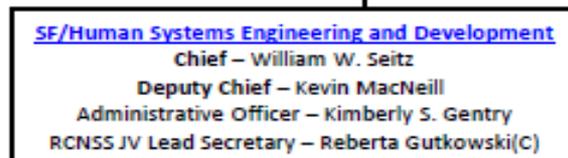
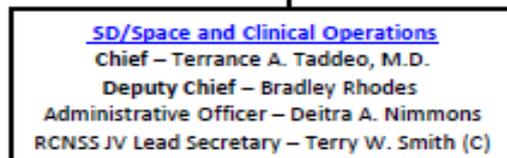
** Also reports to HEOMD as Director, NASA Human Health and Performance Center and Deputy Director, Center of Excellence for Collaborative Innovation



* Reports to HEOMD



* HQ HEOMD provides oversight for the Center of Excellence for Collaborative Innovation



Current Challenges and Goals



Challenges:

- Developing innovative methods to mitigate human system risks for spaceflight
- Managing and coordinating multiple projects across several programs
- Integrating and leveraging opportunities and resources both within NASA and outside the Agency

Goals:

Create and manage a portfolio of internal and external activities targeting the highest priority human spaceflight health and performance risks:

- Leveraging cross-agency opportunities: HRP, AES, ISS, OCT, MPCV, STMD, CCP
- Use innovative approaches to solving human health and performance risks
- Creating a decision framework for novel problem solving techniques

HHPD Customers



➤ ISS:

- Continued support for safe operations including medical operations, environmental monitoring, countermeasures, as well as development and sustaining engineering
- Utilization for the Human Research Program as a technology test bed
- Integration of research and operations

➤ Human Research Program

- Mitigation of spaceflight human health and performance risks
- Integration and execution of flight and ground research (Internally executed and externally solicited)

➤ MPCV/Exploration Systems

Development:

- Systems Integration and certification
- Systems and GFE Design, Development, Test and Integration

➤ Commercial Cargo and Crew

- Insight/oversight/certification

➤ Exploration Technology

Development

- Advanced Exploration Systems (AES)
- Office of the Chief Technologist (OCT) Projects
- Space Technology Mission Directorate

➤ Emerging Spaceflight Customers

- Commercial/tourism

➤ Collaboration for Innovation

- NASA Human Health and Performance Center (NHHPC)
- Center of Excellence for Collaborative Innovation



Small Business Overview

Charles Williams
Small Business Specialist

Industry Assistance Office Contact Information



- Charles T. Williams
Senior Small Business Specialist
(281) 483-5933
- Main phone number:
(281) 483-4512
- All emails should be sent to:
JSC-smallbusiness@mail.nasa.gov
- Location:
Building 1, Suite 453
- Address:
NASA Johnson Space Center,
Industry Assistance Office
Mail Code: BA
2101 NASA Parkway
Houston, TX 77058



Current and Anticipated Contract Overview

**Roger Roberts
Contracting Officer**

Industry Day Overview



- The purpose of this Industry Day is to help industry understand the Government's existing requirements and vision for the HHPC Contract.
- Clarifications concerning the way in which we conduct business today will be answered in the Question and Answer period
- A copy of this presentation is posted through NAIS and on the HHPC website:

<http://procurement.jsc.nasa.gov/HHPC/>

Current Bioastronautics Contract (BC) Overview



Contract Number: NAS9-02078

Prime Contractor: Wyle Integrated Science & Engineering Group

Contract Type:

- Cost Plus Award Fee (CPAF) hybrid consisting of Indefinite Delivery Indefinite Quantity (IDIQ) and Level of Effort (LOE)

Period of Performance:

- May 1, 2003 – September 30, 2014
- Additional contract extensions will bridge the BC contract to the start date of HHPC

Estimated Current Contract Value: \$1.3B

BC Current Contract Overview



Current Small Business Subcontracting Goals:

Category	Goal
Small Business (SB)	30%
Small Disadvantage Business (SDB)	16.75%
Woman Owned Small Business (WOSB)	5%
Hub-Zone Small Business (HUB)	3%
Veteran Owned Small Business (VOSB)	1%
Service-Disabled Veteran-Owned Small Businesses (SDVO)	3%
Historically Black Colleges or Universities/Minority Institutions	1%

Anticipated Contract Overview



- The following information is pre-decisional. There is no guarantee that the final Request for Proposal (RFP) will be structured as such.
- The information is intended to obtain Industry's comments regarding the anticipated contract. Therefore, your input is both desired and requested.
- If there are any changes between what is presented herein and the final RFP, the final RFP shall govern.

Anticipated Contract Overview



Solicitation Number: NNJ14399614R-(subject to change)

NAICS Code and Size Standard

- The NAICS Code is 541712, Research and Development in Biotechnology
- Size Standard is 1000 employees

Period of Performance:

- Phase-in: 60 day phase-in
- Anticipated Contract Start: September 2015
- Options: TBD

Anticipated Contract Overview



Place of Performance:

- Johnson Space Center (JSC)
- White Sands Test Facility (WSTF)
- Sonny Carter Training Facility
- Ellington Field
- Star City and Moscow, Russia

Contract Type:

- In accordance with FAR 16.301-3(a)(3), a cost-reimbursable contract may only be used when the contractor's accounting system is adequate for determining costs applicable to the contract or order. This requirement also extends to subcontractors performing under a cost-reimbursable subcontract.

Special Consideration



Note to Prospective Offerors

Prospective offerors are reminded not to contact incumbent personnel (either directly or through electronic means) during duty hours or at their place of employment, as such contacts are disruptive to the performance of the current contract.



Technical Overview

Richard Lee

Procurement Development Team (PDT) Chair

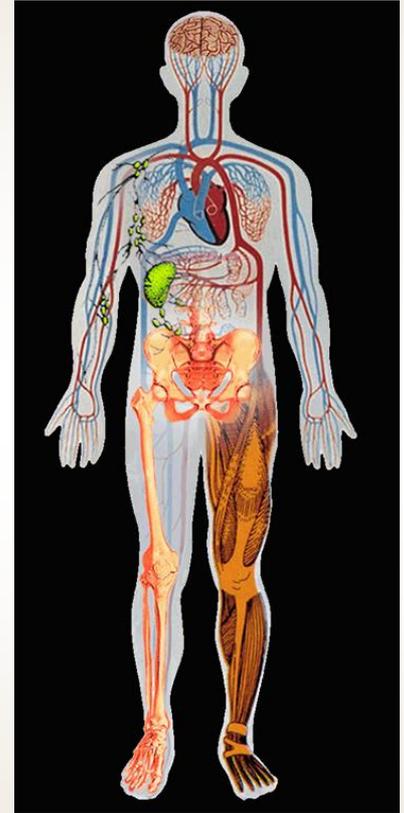
Jonathan Dory

**Procurement Development Team (PDT) Technical
Lead**

Technical Overview



- **Overview of HHPD Divisions**
- **HHPD Capabilities**
- **HHPD Projects**
- **Enabling Activities**



Disclaimer: This presentation includes representative examples of current HHPD Projects and Facilities and should not be considered a comprehensive list.

HHPD Overview



HHPD provides a comprehensive health and safety program for spaceflight and JSC, leads a robust human research program, develops and implements countermeasures to mitigate spaceflight risks, and transfers new knowledge to future spaceflight programs and to applications on Earth.

Focus Areas

- Crew and Occupational Health Care
- Biomedical and Space Cell Biology Research
- Medical Informatics
- Spaceflight Habitability and Environmental Health
- Development and Integration of flight hardware
- Integration of flight experiments

Customers

- International Space Station (ISS) Program
- Human Research Program
- Multi-Purpose Crew Vehicle (MPCV)
- Advanced Exploration Systems (AES)
- Office of the Chief Technologist (OCT)
- Office of the Chief Health and Medical Officer
- Other Programs throughout NASA, other agencies, etc.

Space and Clinical Operations Division (SD)



Mission is to optimize the health, fitness and well-being of astronauts and employees to enable mission success

Responsible for providing a Comprehensive Occupational Health Program including:

- Flight Medicine Clinic
 - Focuses on preventive medicine and medical risk management
 - Long duration medical certification
 - Psychological support for astronauts and their families
 - Astronaut strength and reconditioning
 - Lifetime surveillance of astronaut health
- Spaceflight Operations
 - Pre-, in- and post-flight medical and biomedical engineering support
 - In-flight medical condition management
 - Astronaut medical training (hardware & procedures)
 - Remote medical care for training, launch and landing
 - In-flight and analog research implementation
- Occupational Health Clinic
 - Occupational medical exams
 - Hearing conservation program
 - Workforce Wellness
 - Employee assistance program
 - Human test subject support
- Support to research (medical liaisons, data requests, etc.)
- Requirements development for new vehicles



Biomedical Research & Environmental Sciences (SK)



Biomedical Research & Environmental Sciences (BR&ES) is responsible for:

- Performing biomedical research to understand the normal human response to space flight
- Developing, testing, and delivering candidate space flight countermeasures
- Ensuring environmental standards and crew health and safety are achieved onboard space vehicles and conducting research required to develop advanced environmental monitoring technology concepts

BR&ES also provides:

- Biomedical laboratories for research and the collection, analysis and archiving of samples
- Platform to transform research knowledge to operational tools (transition to operations)



Human Systems Engineering & Development Division (SF)



Human Systems Engineering & Development (HSED) is responsible for supporting human research in space, developing hardware to maintain crew health, providing expertise in Human Factors Engineering and Human Systems Integration, and maintaining IT infrastructure for human health, performance, and research.

System Management & Integration

- Provide technical management and integration of the Human System for existing and emerging spaceflight Programs/projects
- Technical interface and liaison between the Directorate, Program Offices, International and Commercial Partners, and stakeholder organizations.



Habitability and Human Factors

- Establish conceptual designs for habitats and crew systems; ensuring space human factors are defined, documented, and applied to the design and operation of vehicles and habitats.
- Operate specialized facilities to support human engineering, verification, and integration of safe and productive flight crews with vehicles, habitats, and flight crew systems.

Project Management & Engineering

- Design, develop, test, and certify HW/SW for medical and research activities.
- Provide sustaining engineering for HW/SW developed within the HHPD.
- Manage HHPD projects associated with Radiation, CHeCS, AES, ISSMP, and Payloads.

Information Systems Architecture

- Define and implement a comprehensive information architecture, data management strategy, and website integration plan to meet the needs of medical, research, and business functions.

HHPD Capabilities



- Clinical and Occupational Health
- Biomedical Research & Environmental Sciences
- Habitability and Human Factors

Clinical Laboratories



The Clinical Laboratories assist with the recognition, evaluation, control and prevention of illness and disease associated with the flight and institutional work environment and to ensure the health, productivity and wellness for JSC team members.

Flight/Occupational Medicine Clinic and Clinical Lab

- Perform annual, pre-flight, and post-flight exams
- Collect, analyze and archive samples and data
- Maintain accreditation
- Analyze all samples from occupational health



Biomedical Research Laboratories



The main function of the Biomedical Research Laboratories is to conduct research focused on understanding the normal human response to space flight, and to develop, test and validate countermeasures to mitigate pathophysiological responses that may affect crew health, safety and performance during and after space missions.

Standard measures to assess crew health will be implemented for applicable labs

Animal Care Facility

- Provides housing and caring for animals used in ground-based life sciences experiments in support of long-duration spaceflight, and training astronauts for in-flight animal experiments



Biostatistics

- Provides statistical consulting to HHPD
- Conducts research to address the special challenges raised by the data on small numbers of human subjects under non-standard environments and test regimens

Bone and Mineral

- DXA and p-QCT scans and measurements
- Analyze epidemiologic data on bone loss; develop and evaluate countermeasures to spaceflight-induced bone loss

Biomedical Research Laboratories



Cardiovascular Physiology

- Conduct ground-based and in-flight research to
 - Establish a normative database of cardiovascular changes due to space flight
 - Delineate associated mechanisms and develop effective countermeasures, alternative compression garments
- Determine functional consequences of orthostatic intolerance, exercise capacity, and risk of cardiac arrhythmias
- Conduct functional task test, integrated resistive and aerobic training



EVA Physiology

- Develop individualized exercise prescriptions in performing the pre breathe reduction protocols designed to investigate and reduce or alleviate the risk of decompression sickness
- Perform metabolic rate characterization during EVA training
- Support development and testing of suit and life support hardware systems
- Support operational EVA activities

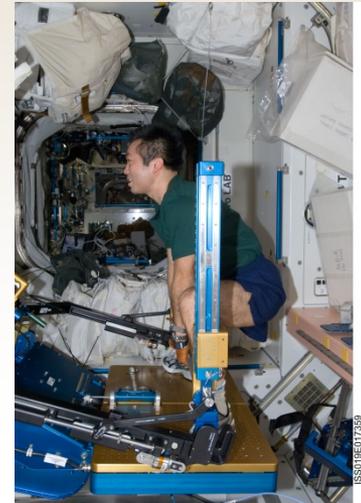


Biomedical Research Laboratories



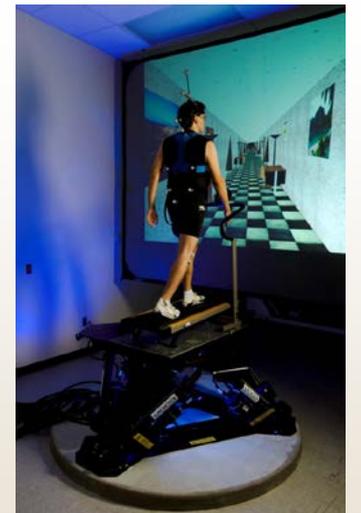
Exercise Physiology

- Support astronaut medical assessment testing requirements
- Understand and mitigate the effects of microgravity on human physiology and performance during and after spaceflight
- Evaluate and validate exercise countermeasures hardware, protocols, and conditioning programs for the maintenance of crew health and performance in space



Neurosciences

- Investigate the effects of spaceflight on the human nervous system, with particular emphasis on posture and gait function, eye-head coordination, perception, space motion sickness and vestibular-autonomic function
- Develop countermeasures to mitigate the spaceflight related changes in nervous system function associated with adaptation to microgravity and return to a gravitational environment



Biomedical Research Laboratories



Nutritional Biochemistry

- Determine the nutritional requirements for spaceflight with the goal to maintain astronaut health in space
- Support clinical nutritional assessment profile of flight crew
- Conduct research that includes spaceflight and ground-analog studies with human subjects
- Develop, evaluate, and validate nutritional countermeasures to prevent or minimize the negative effects of long-duration spaceflight



Pharmacotherapeutics

- Identify, estimate and mitigate risk of treatment failure in space by coordinating and conducting clinical research to identify physiological and biopharmaceutical changes in space
- Develop, identify and validate safe and effective noninvasive diagnostics tools, innovative pharmaceutical technologies, therapeutic procedures and intervention strategies
- Develop innovative technologies for novel drug delivery in space



Habitability and Human Factors Laboratories



The Human Factors and Habitability Laboratories are responsible for ensuring that space human factors, including human physical parameters and performance capabilities and limitations, are defined, documented, and applied to the design and operation of vehicles, habitats, and flight crew systems equipment to ensure the safety and productivity of humans in space. These laboratories provide both operational support for flight programs as well as conduct research to help assure the effective crew performance.

Anthropometry and Biomechanics Facility (ABF)

- Conduct space biomechanics and ergonomics research studies that deal with issues humans will encounter while living, working, and exploring in space.
- Test and evaluate crew work procedures/equipment, spacesuit design, EVA/IVA tool design, EVA/IVA human performance issues, EVA/IVA crew-induced loads

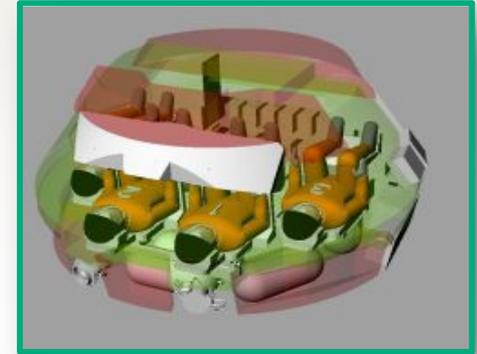


Habitability and Human Factors Laboratories



Graphics Research Analysis Facility (GRAF)

- Perform computer-aided human factors analyses to address human engineering issues for space design and analyses (i.e., human modeling, habitability, computer animation, lighting and viewing analyses, operations analyses for activities inside and outside the spacecraft, design concept visualizations, research and development activities).



Habitability Design Center (HDC)

- Provides advanced concepts to the community using Human Factors as a design tool to develop products, systems, and architecture.



Habitability and Human Factors Laboratories



Lighting Environment Test Facility (LETF)

- Investigate and evaluate proposed lighting systems for use on space vehicles to enhance the crews' direct and indirect viewing (i.e., investigate, measure and analyze artificial lighting systems; reflective characteristics of various materials and the effects of solar lighting; and transmission characteristics of transparent materials used for visors, displays and windows).



Space Food Systems Laboratory (SFSL)

- Design, develop, evaluate and produce flight food, menus, packaging, and food-related ancillary hardware for Space Station, and Advanced Food Systems.



Usability Testing and Analysis Facility (UTAF)

- Provide analysis, evaluation and usability testing of crew interfaces for work areas and equipment (i.e., computer displays and controls, workstation systems, and other types of crew interfaces).



Environmental Sciences Laboratories



The Environmental Laboratories provide expertise for operational support of all human space flight programs, including setting spacecraft environmental requirements, providing pre-mission or pre-increment analyses and planning, and evaluating actual on-orbit internal environmental conditions. These labs also conduct research focused on the development of advanced environmental monitoring technology concepts and on evaluating and controlling environmentally induced risks to crew health and safety.

Acoustics and Noise Control Laboratory (ANCL)

- Perform emissions engineering & verification testing on flight prototypes and ground-test hardware, including systems and habitable volumes.
- Provide acoustic measurements (sound pressure level, sound power level, and analysis services, etc.) and modeling.
- Provide hardware design review and noise control engineering services for flight and ground-test hardware.

Biomedical Engineering for Exploration Space Technology (BEST)

- Develop innovative technologies and countermeasures to close existing gaps for future human space exploration.
- Create a wide variety of unique, customized test beds and cell/tissue models.



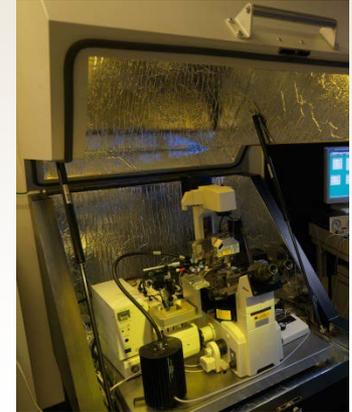
Environmental Sciences Laboratories



Core Laboratory

Provide research instrumentation for NASA investigators

- Provide laboratory space for chemical and biological analysis to all JSC researchers, interns, and external collaborators
- Provide expertise in analysis of biomedical samples
- Provide enhanced cellular and biological analytical capabilities at JSC



Environmental Health Laboratory

The EHL are responsible for the analysis of suspected hazards and toxins in air, drinking water, waste water, soil and building materials at the Johnson Space Center, Ellington Field and the Sonny Carter Training Facility.

- Profile Ground water quarterly
- Characterize Hazardous Waste
- Analyze Waste water (including sanitary sewers and cooling towers), potable water and storm water
- Conduct Spill Response testing
- Maintain accreditation from the American Industrial Hygiene Association (AIHA) and the National Environmental Laboratory Accreditation Program (NELAP) State of Texas

Environmental Sciences Laboratories



Immunology Laboratory

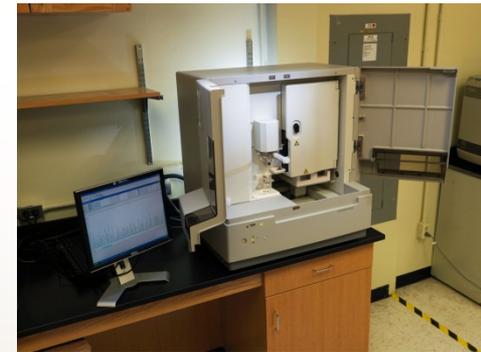
- Investigate the effects of space flight on various aspects of human immune system
- Develop appropriate countermeasures for suppressed immune system for exploration class missions

Microbiology Laboratory

- Provide expertise in crew health and environmental design issues related to microorganisms
- Process clinical samples from the astronauts, their families and certain facility workers
- Process environmental samples to ensure that pathogens are not taken into the craft before flight; environmental sampling includes air, potable water, spacecraft surfaces, in-flight hardware, and food

Space Radiation Analysis Group (SRAG), Radiation Operations Support Area, and Space Radiation Dosimetry Lab

- Model and monitor the space radiation environment to ensure crew radiation exposures remain below established safety limits; project crew exposures and mitigate the adverse effects of radiation



Environmental Sciences Laboratories



Toxicology and Environmental Chemistry

- Provide assessments of health hazards associated with all compounds that could enter the spacecraft air or water, off gas testing to control airborne contaminants in spacecraft atmosphere, onboard monitoring, and assessments of toxicological risks to crew
- Provide comprehensive analyses of spacecraft foods so that spaceflight menus can be judiciously designed to fulfill the nutritional needs of astronauts
- Develop technologies for real-time on-orbit water quality monitoring
- Analyze water samples from ISS



HHPD Projects



HHPD is responsible for multiple projects including:

- Flight Hardware Development
- ISS Medical Projects
- Flight Analog Projects
- Space Cell Biology
- Space Radiation



Flight Hardware Development, Integration, and Sustaining Engineering



HHPD is responsible for multiple flight hardware tasks in support of the International Space Station (ISS), MPCV, and other Programs including:

- Integration Support
 - Environmental Hardware Sustaining and Resupply
 - Development of an Air Quality Monitor, and Radiation Assessment Detector
 - Maintenance of Space Medicine training hardware
 - Project engineering and hardware integration support of CHeCS
 - Environmental Health, Health Maintenance and Radiation Systems provided hardware
- The complexity of hardware development tasks ranges from usage of COTS to full-up DDT&E
 - HHPD is also engaged in advanced technology development for all human space flight missions



Flight Hardware – DDT&E

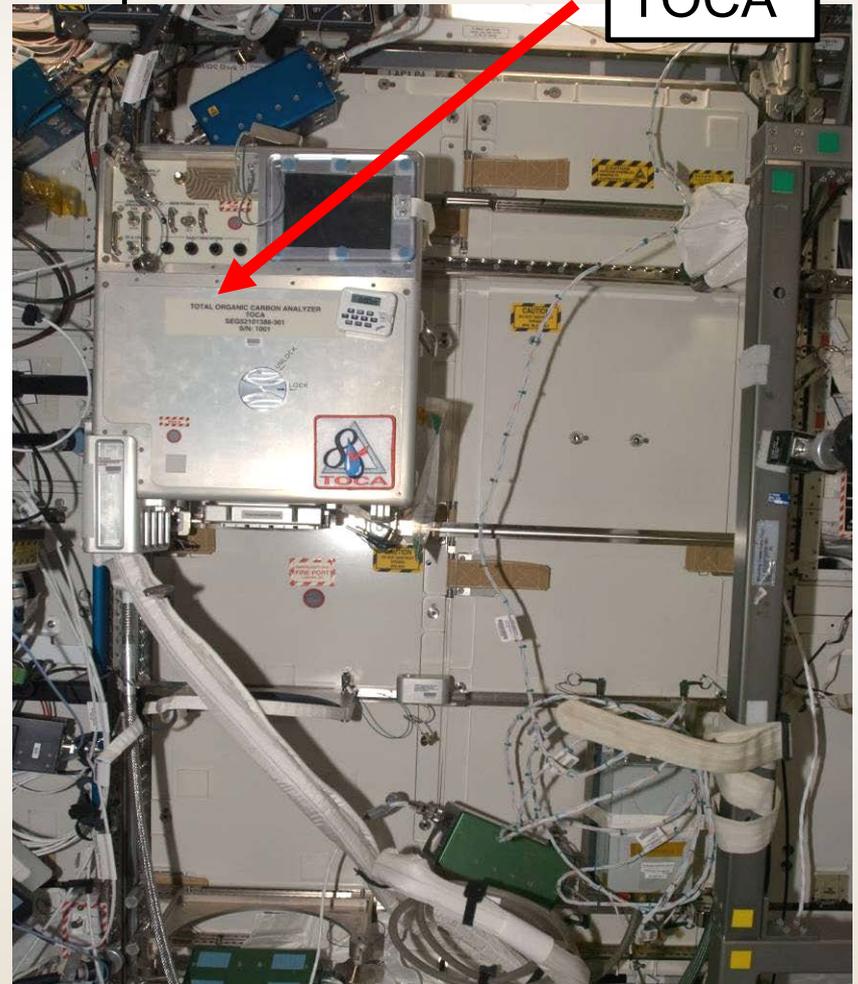


Total Organic Carbon Analyzer – monitors concentrations of total organic carbon in ISS potable water samples

TOCA



TOCA



TOCA ON ISS LAB 44

Flight Hardware – T2



COLBERT: Combined Operational Load-Bearing External Resistance Treadmill

- Provides an exercise countermeasure to attenuate bone loss and provide aerobic conditioning
- Sustaining and New Development – addresses the regular monitoring, trending, and operational interface for the project
- Logistics and Maintenance/Resupply – fabricates and assembles for flight of certified items needed on-orbit to keep treadmill operations continuing
- ESA Subject Loading System (SLS) – integrates the testing, coordinating, and reviewing function for the receipt of the ESA Subject Loading System

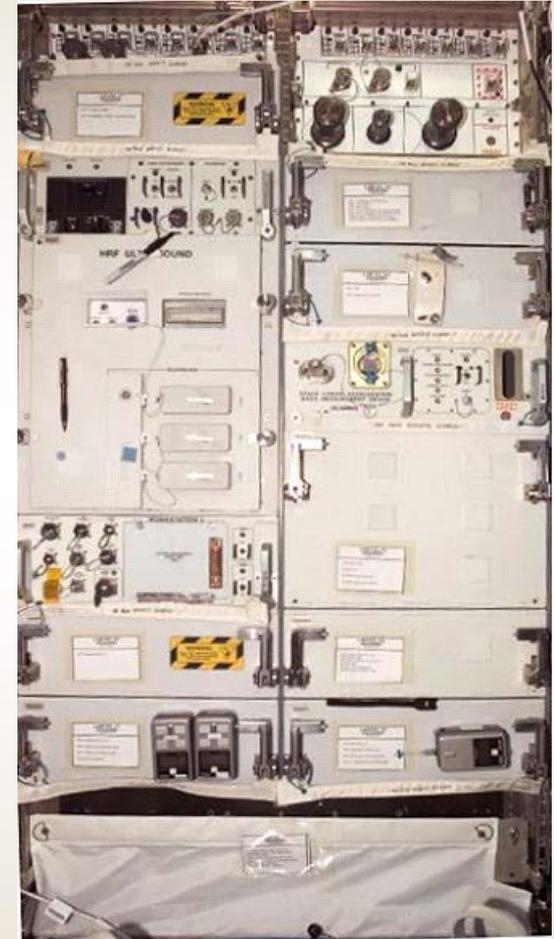


HRP ISS Medical Projects



ISSMP provides planning, integration, and implementation services for HRP research tasks and evaluation activities requiring access to space or related flight resources; and supports pre- and post-flight activities

- Develop, operate, and sustain HRP flight hardware
- Develop and integrate experiments for flight
- Training and sustaining engineering for the crew training facility (Payload Development Laboratory)
- Provide systems engineering, integrating hardware, and providing test facilities
- Provide operations and sustaining engineering for the Telescience Support Center



Flight Analogs



- Provide the primary means by which Human Research Program evaluates and validates standard measures, countermeasures, hardware and risk reduction prescriptions before spaceflight
- Support the research located at the General Clinical Research Center at the University of Texas Medical Branch, Galveston
- Provide coordination, integration, logistics, and communication for analogs that include:
 - Bed Rest Studies, Reduced Gravity Aircraft, Antarctica, Desert Research and Technology Studies (D-RATS), Haughton Mars-Devon Island, NASA Extreme Environment Mission Operations (NEEMO), Human Exploration Research Analog (HERA)

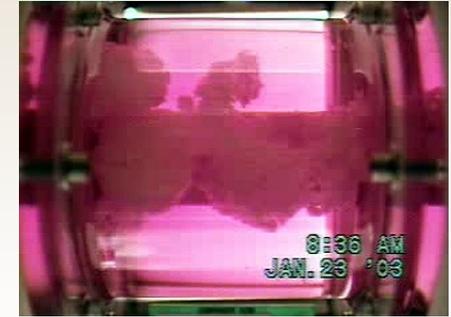


Space Cell Biology



Ground and Flight Operations

- Part of ISS as National Laboratory
- Recertify and deliver flight hardware for cell culture/tissue engineering on ISS, which includes the Rotating Wall Perfused System (RWPS)
- Support the development and verification of flight tests to demonstrate hardware capabilities
- Provide payload integration and real-time flight support



Model Development

- Develop 3D tissue culture models to establish the breadth of research that can be performed, including models of human disease such as cancer, diabetes, and infectious diseases
- Provide experience that includes medical doctors, cell biology/tissue engineering researchers, and the inventors of the NASA bioreactor

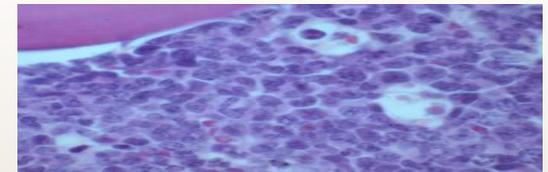


Space Radiation



- Establish scientific basis to accurately project and mitigate risks of:
 - Cancer
 - Acute radiation syndromes
 - Acute and late central nervous system effects
 - Degenerative tissue effect

- Coordinate research activities to:
 - Enable the definition and improvement of space permissible exposure limits
 - Inform the development of radiation design and monitoring requirements
 - Develop technologies that serve to reduce space radiation health risks and human system resource requirements



Human Research Program Support



Requires planning and organizational management tools and professional support for the HRP program office and HRP control boards and panels.

- Generation and maintenance of program-level products
- Participation in management activities and coordination of program and project reviews
- Identifying and resolving programmatic risks as well as risks applicable to crew health and safety
- Identifying and prioritizing research and technology development that mitigates human health and performance risks
- Support in establishing science management policy and development of processes
- Coordinating procurements of scientific research and technology development



HRP International Science Collaboration



International research collaborations are focused on integrating and coordinating across the HRP and international partners/collaborators to maximize the value of the international research effort for exploration based on the goals and objectives of the NASA Human Research Program and Agency.

- Integration and coordination across the HRP and International partners
- Development of strategic and implementation plans and guidance for sharing both hardware usages across disciplines and across partners as well as operational medical and human research data
- Interface with multilateral and bilateral implementation groups to coordinate and oversee the HRP and agency research program based on inputs from international partners

Enabling Integration Activities



Human System Integration

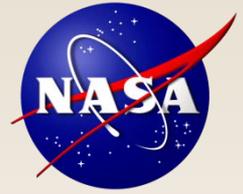
- Provides Human-Systems Integration expertise to ensure human concerns (health and performance) are integrated with other vehicle subsystems from the beginning of a project through operation and even decommission

Human System Standards

- Provides expertise on human spaceflight standards found in the two-volume Space Flight Human System Standard, including (Volume 1 Crew Health, and Volume 2 Human Factors, Habitability, and Environmental Health); as well as the companion document Human Integration Design Handbook (HIDH)



Enabling Innovation Activities



- NASA Human Health and Performance Center (NHHPC)
 - A virtual center that brings organizations together to advance human health and performance innovations for life in space and on Earth by sharing best practices and engaging in collaborative projects
- Center of Excellence for Collaborative Innovation
 - A virtual center to facilitate open innovation processes, develop guides, and process to help selecting solution mechanisms

The NASA-TopCoder Challenge

NASA-TOPCODER CHALLENGE:
EXPLORING THE NEXT FRONTIER OF INNOVATION

\$25,000 IN PRIZES!



the WHITE HOUSE PRESIDENT BARACK OBAMA

★ ★ ★ ★ THE WHITE HOUSE WASHINGTON

BLOG PHOTOS & VIDEO BRIEFING ROOM ISSUES

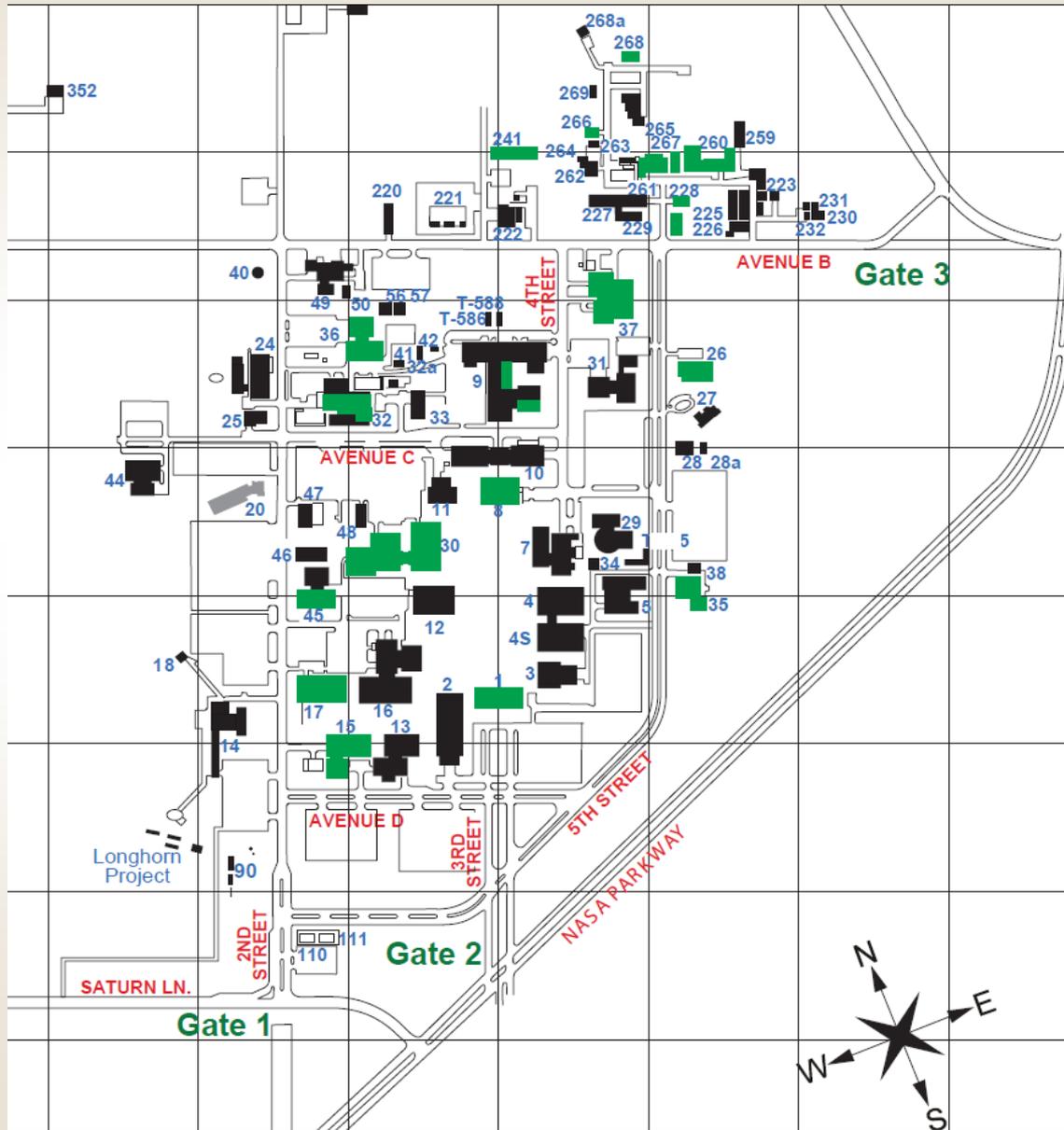
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NASA Open Innovation Competition Delivers Three Winning Solutions

JSC On-Site HHPD - Facilities



Human Health and Performance Directorate Facilities



- HHPD has facilities located throughout the JSC campus
- The Contractor will be responsible for fulfilling requirements at other locations
 - White Sands Test Facility
 - Sonny Carter Training Facility
 - Ellington Field
 - Star City and Moscow, Russia
- HHPD external website with detailed descriptions of the facilities:

<http://www.nasa.gov/centers/johnson/SLSD/>

Human Health and Performance Potential New Buildings



BUILDING 21: HUMAN HEALTH & PERFORMANCE LABORATORY | JOHNSON SPACE CENTER

A flexible, functional and efficient laboratory facility for the 21st century — enabling successful space exploration by minimizing the risks of spaceflight hazards.

HDR

- Supports space life sciences, human performance research, and manned missions
- Projected USGBC LEED Gold Certification
- Modular design and furnishings for future flexibility
- Consolidates multiple buildings into a single, highly functional and efficient 117,900 SF facility



MAIN ENTRY APPROACH (LOOKING WEST)



SOUTH EASTERN CORNER



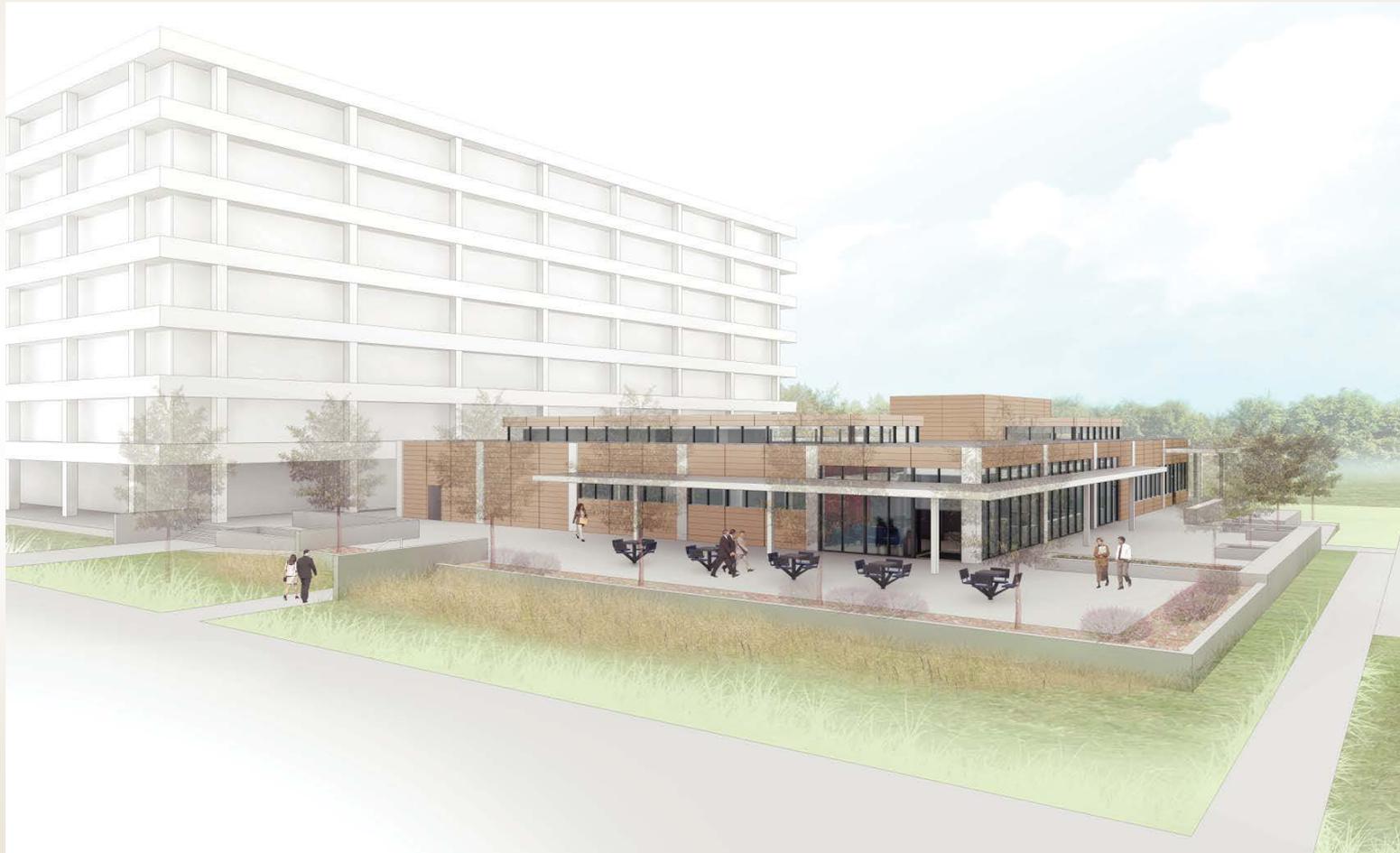
AERIAL PERSPECTIVE



COURTYARD (LOOKING WEST)

- Building 15, 37, 228, 261 266, and 272 to be moved to Building 21 (tentative)

Human Health and Performance Potential New Buildings



- Building 8 moving to B45 North. Completion is anticipated by early 2015



Procurement Schedule and Q&A

Roger Roberts, Contracting Officer

Anticipated Procurement Schedule



- Following the release of a RFP, industry will have an opportunity to submit anonymous questions in writing so that the Government may officially respond

- Anticipated Procurement Schedule:

Draft Release of RFP	September 2014
Pre-Proposal Conference	September 2014
RFP release	October 2014
Contract Award	June 2015
Contract Phase-in	June 2015
Contract Start	September 2015

- A more detailed procurement schedule will be posted to the procurement website as soon as it is available



Summary

Roger Roberts
Contracting Officer

One-on-One Communication with Industry



- July 21, 2014 1:00 p.m.- 5:00 p.m. and
July 22, 2014 8:00 a.m.- 5:00 p.m., as assigned.
- No more than 6 individuals may represent any company or team
- Only 1, One-on-One meeting will be allowed
- Meetings will not exceed 25 minutes in length

HOW TO GET CONNECTED



- Human Health and Performance Contract (HHPC) Website

<http://procurement.jsc.nasa.gov/HHPC/>

- NASA/JSC Business Opportunities Home Page
Set up your user profile

<http://prod.nais.nasa.gov/cgi-bin/eps/bizops.cgi?gr=D&pin=73>

- NASA Acquisition Internet Service (NAIS)

<http://procurement.nasa.gov>

- JSC Procurement Website

<http://procurement.jsc.nasa.gov/>

- Industry Assistance – Bldg. 1 - JSC



Thank you for attending!

Visit:

<http://procurement.jsc.nasa.gov/HHPC/>