



# Achieving Workplace Health through Application of Wellness Strategies

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## Overview of JSC



## NASA/Johnson Space Center



- NASA/Johnson Space Center was established in 1961.
  - Current Civil Servants
    - 3245 Civil Service employees
    - ~ 110 astronauts
  - Current Contractor Employees
    - ~ 50 companies provide personnel
    - ~13K employees
- Since Project Gemini, JSC has led and managed NASA's human space flight programs
  - From 1961 through mid 1970's JSC led and managed single programs
  - Currently JSC leads and manages 3 major programs and several major projects

















## JSC Demographics



#### **Civil Service Education**

8% doctorates

30% masters

52% bachelors

1% associates

9% no degree

#### Civil Service Diversity

50% Non-minority male

25% Non-minority female

13% Minority male

11% Minority female

#### Civil Service Average Age 45.7

Average Attrition: 4.1%

50% Retirement

50% Resignations

#### Civil Service Grade Distribution

2% @ executive level

20% @ Grade 15

22% @ Grade 14

36% @ Grade 13

9% @ Grade 12

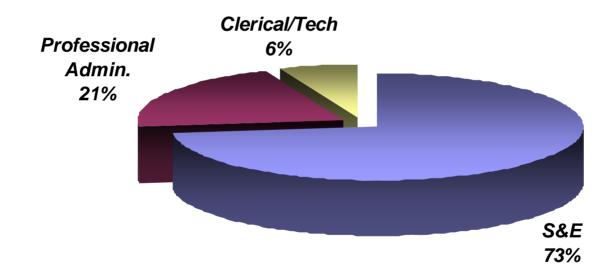
4% @ Grade 11

7% @ Grade 9 and below





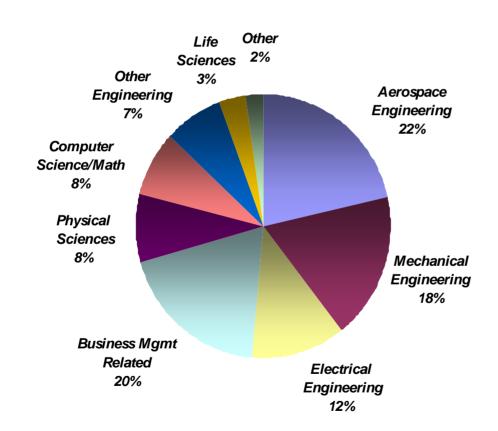






## JSC Civil Service Degree Fields





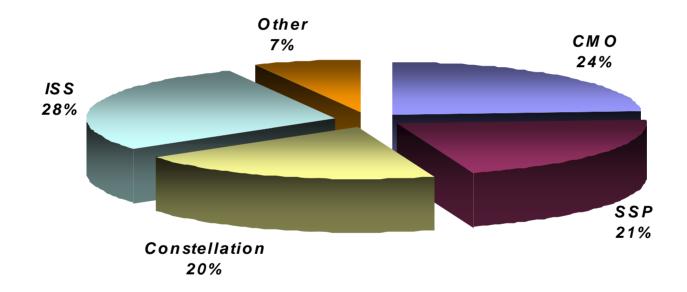
#### Degree Fields

Aerospace Engineering	634
Mechanical Engineering	530
Electrical Engineering	354
Other Engineering	221
Computer Science/Math	237
Life Sciences	100
Physical Sciences	250
Business Mgmt Related	565
Other	66



## JSC Workforce by Major Program Activity









## **Employee Services**



## Occupational Medicine/Health



#### Occupational, Emergency and Preventive Medicine

Regulatory Functions

Work Related Physicals

Fitness for Duty Exams

Food Sanitation Program

**Employee Assistance** 

Program

**Emergency Medical** 

**Treatment** 

Non-regulatory Functions

Non-work related emergency

treatment

Periodic Health Screening Exams

Public Health, e.g., Flu Shots

**AED Program** 

Wellness Program

#### **Occupational Health Services**

Industrial Hygiene field investigations

**Radiation Safety** 

**Hazard Communication** 

Health Training

**Environmental Surveillance** 



#### **Human Resources**



- Provides a wide range of services to JSC employees to enhance the overall work experience
- Serve as both employee advocates and consultants to management
- JSC People Website <u>http://jscpeople.jsc.nasa.gov/</u>
- Each Directorate Level Organization is assigned:
  - HR Representative
  - HR Development Representative
- Customer Service Desk is provided







# Starport was established to contribute to the welfare and morale of the JSC workforce

#### **Core Functions:**

- Exploration Wellness Program
- Recreation Activities
- Cafes and Catering
- Gift Shops and Online Retail Services
- Employee Activities



## **Exploration Wellness Program**



- Starport Fitness Facility
  - Personal training
  - Exercise classes (free enrollment for Yoga, Pilates, Hip Hop Aerobics)
  - Two outdoor running trails
- Specific Behavior Change Programs
- Access to a Registered Dietician/Nutrician Counseling
- www.explorationwellness.com
  - Wellness assessment
  - Health and wellness information
- Recreation Classes (Ballroom Dancing, Salsa, Tae-Kwon-Do)
- Sports Leagues (Volleyball, Softball, Basketball, Soccer, Flag Football)
- Massage Therapy



## **Tools for Employee Care**



#### Work/Life Balance

**Exploration Wellness Program** 

Employee Assistance Program

Child Care Center

Maxiflex & Variable Schedules

Flexiplace & Telecommuting Options

#### **Training and Development**

Onsite and offsite courses

Online learning

College courses

Leadership development

#### **Benefits**

Insurance: Health, Vision, Dental, Life and Long Term Care

Finances: Thrift Savings Plan, Flexible Spending Accounts

Generous Leave/Leave Transfer Programs

Online Benefit Services

Recognition and Awards Program





## **Prior Assessments**



## Background



- NASA/Johnson Space Center, routinely conducts workplace surveys/assessments
  - to understand workplace climate and health
  - to apply wellness strategies, where applicable
- Such assessments are a collaborative effort between Occupational Medicine/Health and Human Resources.
- Assessments were done in 1999, 2000 and 2003
- 1999 indicators that assessment was required
  - 6-fold increase in EAP work stress cases over 10 year period
  - Job stress made up 18% of the presenting problems at EAP
  - HR noted increases in restored leave; overtime; comp time; voluntary time
  - Employee exit surveys cite job stress & workload as decision factors



## 1999 Study



- Conducted 6 focus groups (65 participants total) to collect data
  - Non-supervisory and Supervisory personnel
  - Administrative, S&E, Program Office, Secretaries
  - Data collected with 3 separate approaches
    - 1. Physical and Behavioral Stress Questionnaire (checklist)
    - 2. Coping and Stress Profile (assessing work, personal, and family stress)
    - 3. Group Discussions (facilitated by the consultants)
- Outcome of study
  - Successfully negotiated higher staffing levels with HQ
  - Raised awareness of stress-related issues through education
    - Stress education for managers and supervisors
    - Increased EAP awareness
    - Promoted Wellness program (nutrition, exercise, stress management)
  - Initiated intervention strategies
    - Expanded Wellness Program
    - Developed & offered new stress training programs
    - Provided information on community counseling and support organizations
    - Explored increased work schedule flexibilities
- Recommended doing a comprehensive stress assessment of JSC workforce (2000)



## 2000 Survey



- 2500 employees responded to 48 question survey
- Findings
  - Top 3 causes of stress
    - Work Conflict: competing requests, unnecessary tasks, lack of resources
    - Overload: too much pressure, too much to do
    - Organizational support: level of caring about opinions, lack of successful interpersonal relationships
  - Top 3 things that did not cause stress at JSC
    - Job ambiguity: clarity on assignments; known, acceptable performance expectations
    - Cognitive trust: high trust and management competence levels
    - Belonging to NASA: job fit into Agency/Center objectives, level of pride in job & JSC
  - Top 2 consequences of stress
    - Low job satisfaction
    - High psychological strain
- Outcome
  - Continuation of stress education programs, EAP awareness, intervention strategies
  - Implementation of systemic change in response to root causes defined by survey
  - Incorporation of best practices from high achieving organizations



## 2003 Survey



- 2530 employees responded to 96 question survey
- Findings
  - Greatest sources of stress
    - Workload 57% pace of work / 42% quantity of work
    - Dissatisfaction with recognition
      - 52% cite promotions
      - 44% cite under-appreciated & under-rewarded
      - 40% cited that everyone gets same rewards
  - Greatest effects of stress
    - Physical and/or emotional >50% reported stress related symptoms in last month
    - Physical Productivity 33% agreed it is heavily impacted by stress
  - Areas of potential concern
    - Morale
    - Intention to Quit
- Outcome
  - Results reviewed with Senior Management, each directorate and communicated to JSC
  - Actions plan developed and implemented by individual organizations
  - Continuation and enhancement of earlier initiatives



### **Current Effort**



- Purpose
  - Understand and measure JSC workplace health
    - levels, sources, indicators & effects of negative, work-related stress
    - define leading indicators of emerging issues
  - Provide linkage to outcomes
    - Focus application of wellness strategies & HR tools
    - Increase quality of work life and productivity
- Current effort will result in
  - Online assessment tool
  - Assessment of total JSC population (civil service & contractors)
  - Application of mitigation tools and strategies
- Product of the JSC Employee Wellness Program
- Collaboration with Corporate Health Improvement Program/University of Arizona



## **Assessment Development**



#### Phase 1 Products

- 1. Survey development
  - Hybrid of existing instruments
  - Tailored using prior surveys
  - Identify specific concerns with onsite focus groups
- 2. Review of assessment tool
  - Interviews with employees
  - Assess understanding of survey items
- 3. Test hard copy assessment tool
  - Pilot assessment
  - 20 JSC employees to participate
- 4. NEW survey: ~ 30 questions
  - existing items from prior surveys
  - new items from focus groups

#### Phase 2 Products

- 1. Test & Refine Hard Copy Tool
  - Pilot test(s) with TBD # employees
  - Refine tool based on pilot tests
  - Continue testing/refinement
- Develop On-line tool based upon hard copy results
- 3. Test & Refine On-line tool
  - focus groups and/or
  - telephone debriefing
- 4. Finalize on-line assessment tool



#### Assessment Plan



- Assessment of total JSC workforce with new, online survey instrument
- Analysis of survey results
- Based upon survey results
  - Implement selected, available, wellness strategies
  - Implement available human resources tools and capabilities
- Assessment of the effectiveness of the interventions over a 3 year period