



Las Mujeres en el Area Espacial

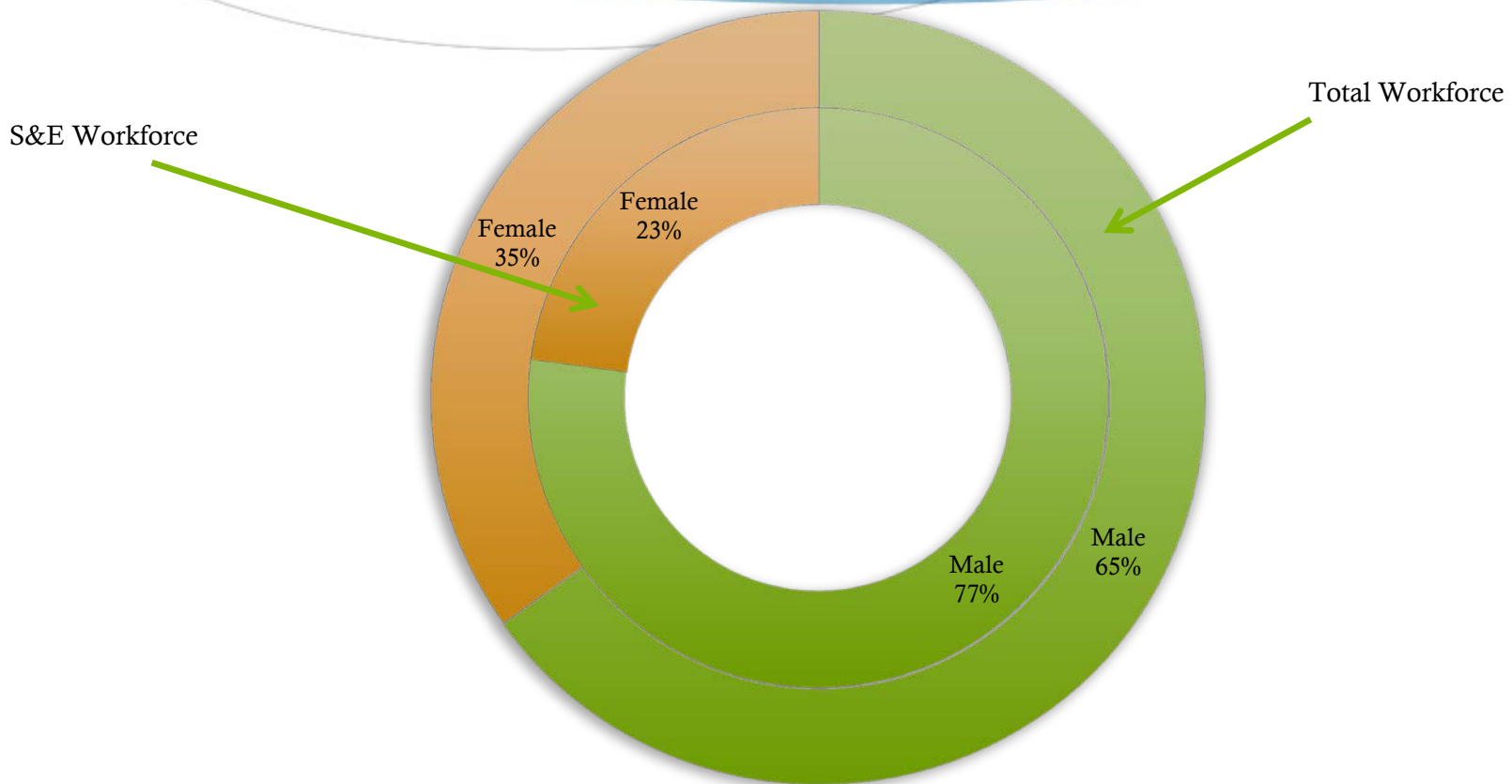
Mayra N. Montrose
Program Executive
NASA





Estadísticas de empleados de ciencia y tecnología en NASA

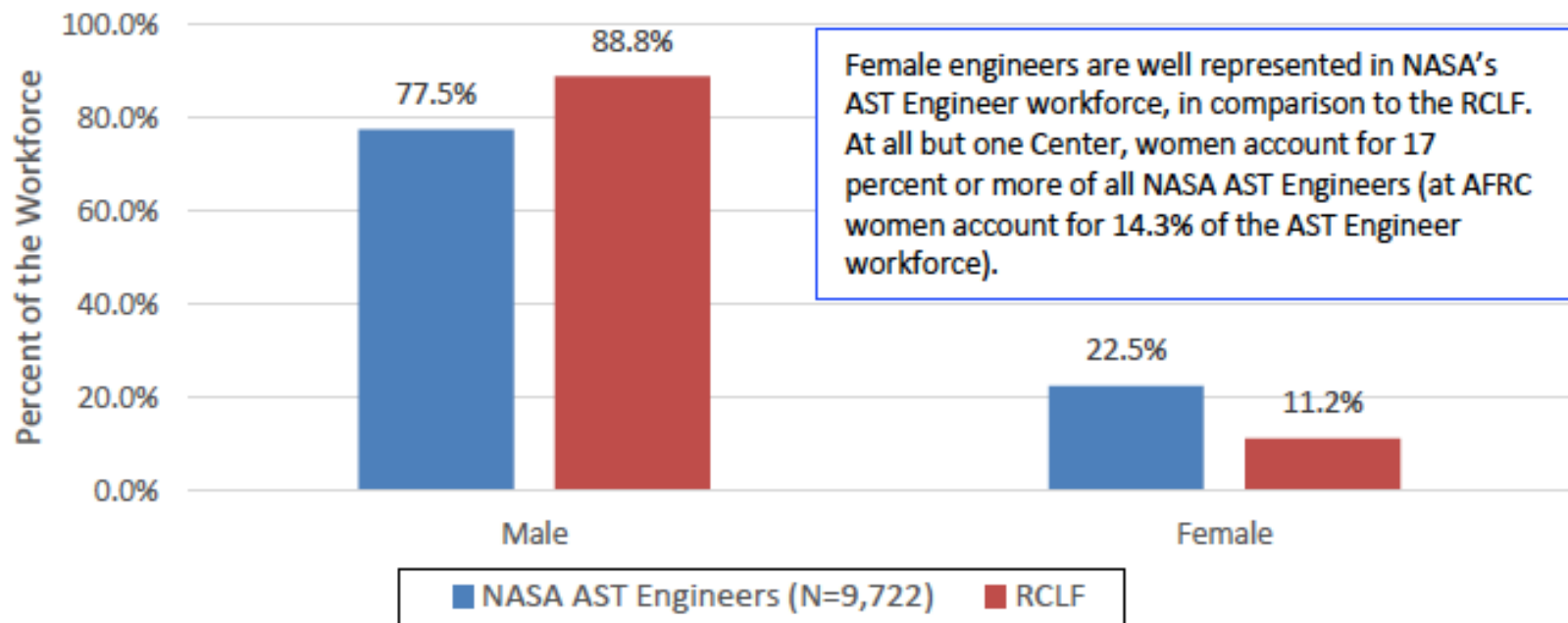
Total NASA workforce and S&E Workforce, by gender, 2015



All S&E female workforce is ~29% per NCSES



Fig. A2. NASA AST Engineers by Gender v. RCLF,* FY 15



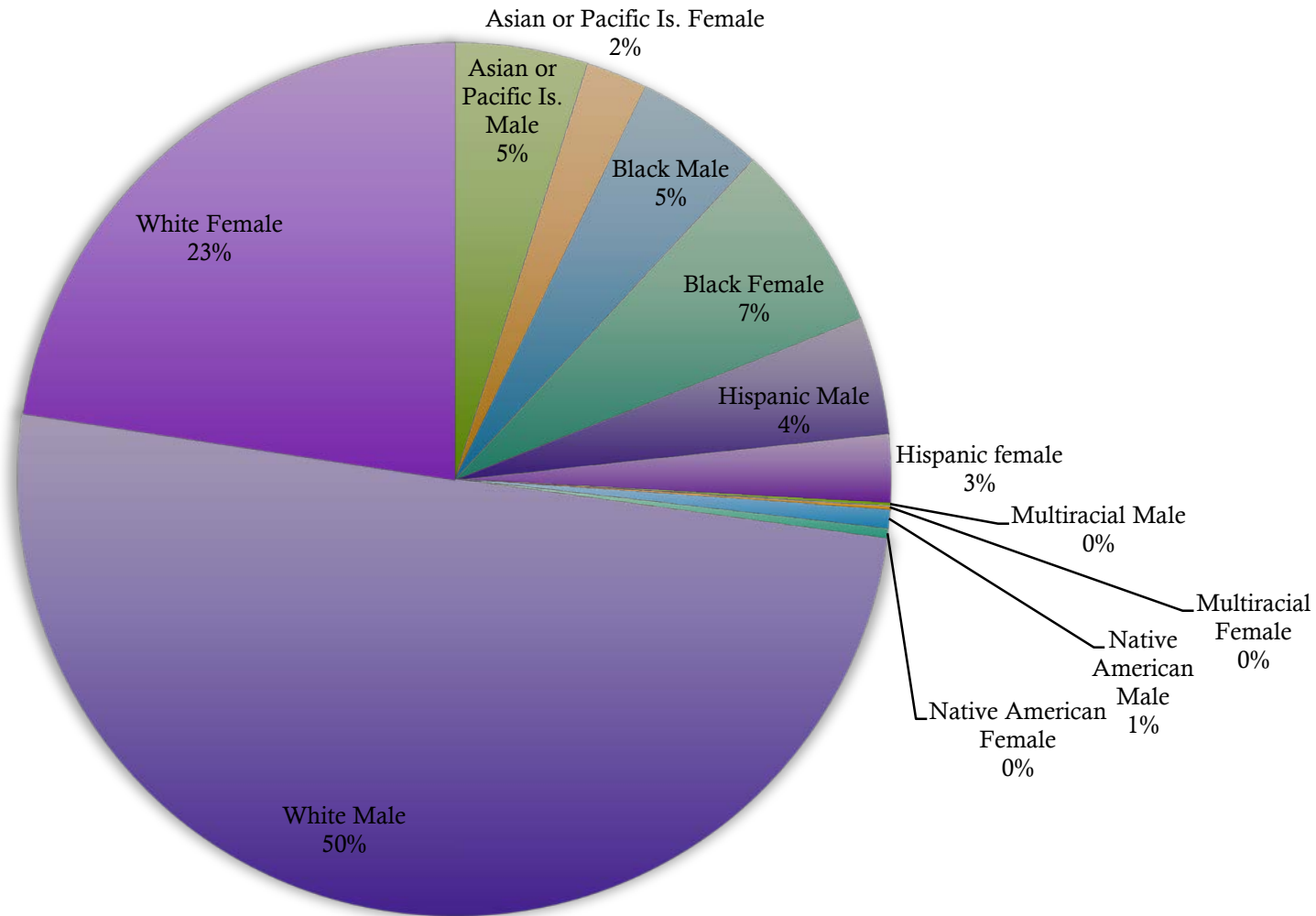
* RCLF includes General (0801), Electrical (0850), Computer (0854), Electronic (0855), and Aerospace (0861) Engineers.

⁵ For FY 15, the RCLF data for persons reporting more than one race were reaggregated according to EEOC's 2013 document, "Technical Assistance for Federal Agencies In Using the 2006-2010 American Community Survey Equal Employment Opportunity Tabulation." This guidance provides instructions for aggregating certain categories when persons identify as more than one race. Thus, compared to the RCLF reported in FY 14, the Black and American Indian or Alaska Native categories increased slightly, while the multiracial category decreased. Nonetheless, the conclusions about underrepresentation of various groups in FY 15 are essentially the same conclusions as in FY 14.



Estadísticas de diversidad en NASA

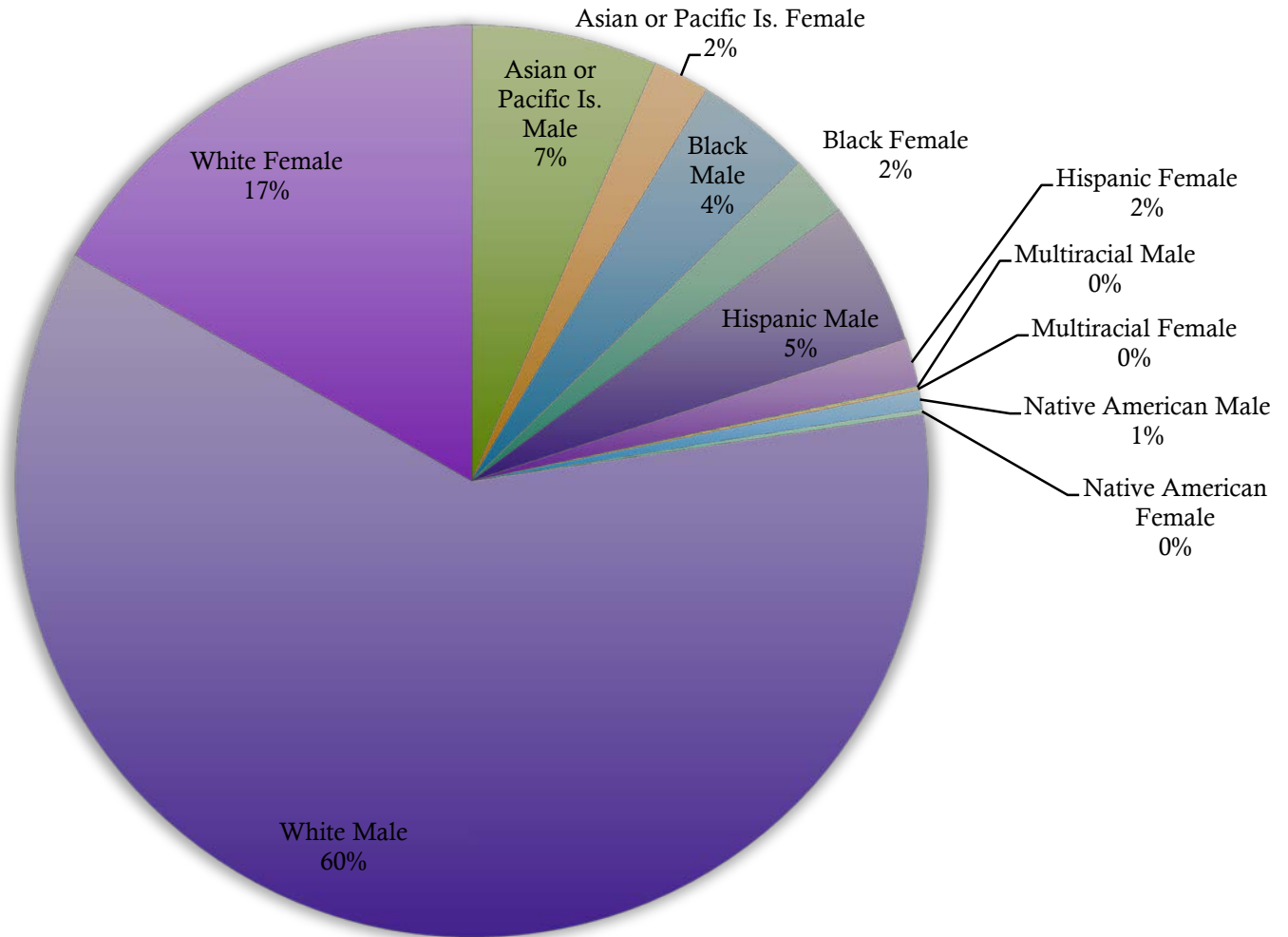
NASA Civil Service Workforce, by ethnicity, 2015





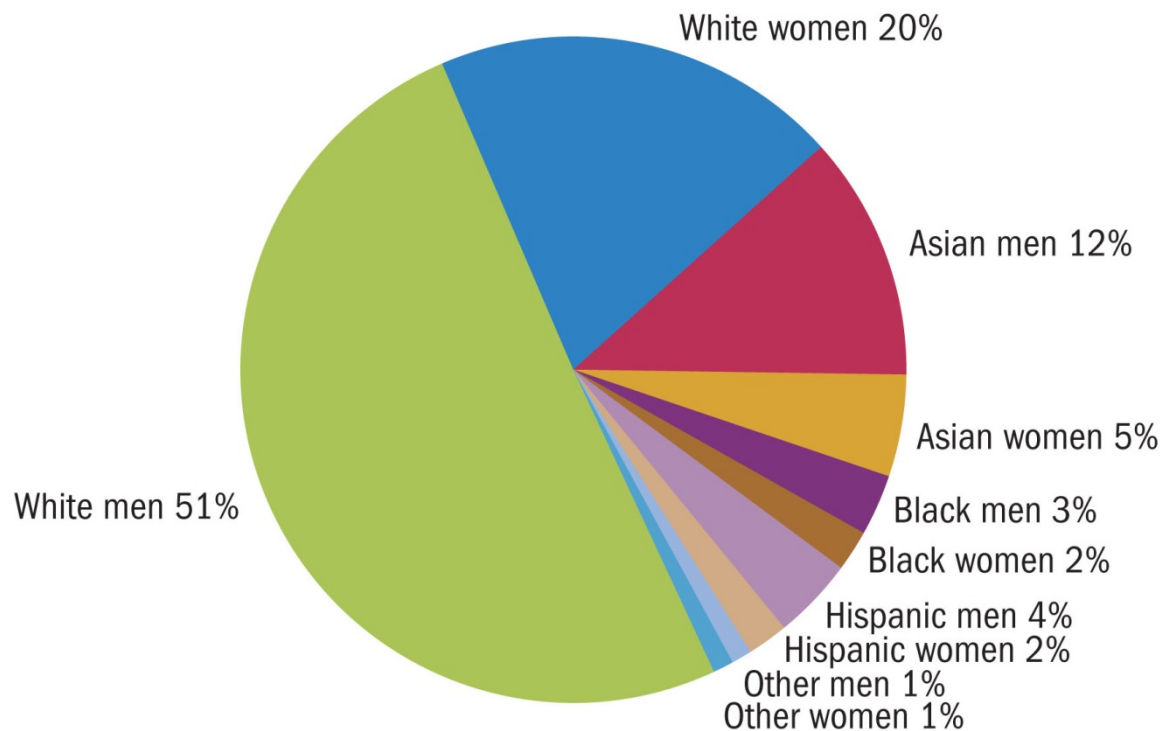
NASA (Ciencia e Ingeniería)

S&E Ethnic Diversity at NASA, by Gender (2016)



10,950

Scientists and engineers working in science and engineering occupations: 2013



NOTE: Hispanic may be any race. Other includes American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, and multiple race.







Y, para divertirnos...


57


Female Astronauts





Women suffer less from hearing loss and do not display a bias towards hearing loss in the left ear 


No female astronauts, (to date) exhibit clinically significant visual impairment 


Women demonstrate a slight bias towards accuracy versus speed 

Female astronauts more susceptible to orthostatic intolerance 

Women mount more potent immune responses 

Urinary tract infections more common in female astronauts 


Struvite kidney stones more common in women, but no kidney stones yet reported in space 


Large individual variability to muscle and bone loss in women 


477


Male Astronauts





Men suffer more from hearing loss, and display a bias towards hearing loss in the left ear 


Some male astronauts exhibit clinically significant visual impairment 


Men demonstrate a slight bias towards speed versus accuracy 

Male astronauts less susceptible to orthostatic intolerance 

Men mount less potent immune responses 

Urinary tract infections less common in male astronauts 

Calcium oxalate kidney stones more common in men, but no kidney stones yet reported in space 

Large individual variability in muscle and bone loss in men 



Publicado en Journal of Women's Health (Nov 2014)

The Impact of Sex and Gender on Adaptation to Space: Executive Summary

Saralyn Mark, Graham B.I. Scott, Dorit B. Donoviel, Lauren B. Leveton, Erin Mahoney, John B. Charles, Bette Siegel *Journal of Women's Health*. Nov 2014: 941-947.

Effects of Sex and Gender on Adaptation to Space: Cardiovascular Alterations

Steven H. Platts, C. Noel Bairey Merz, Yael Barr, Qi Fu, Martha Gulati, Richard Hughson, Benjamin D. Levine, Roxana Mehran, Nina Stachenfeld, Nanette K. Wenger *Journal of Women's Health*. Nov 2014: 950-955.

Effects of Sex and Gender on Adaptation to Space: Behavioral Health

Namni Goel, Tracy L. Bale, C. Neill Epperson, Susan G. Kornstein, Gloria R. Leon, Lawrence A. Palinkas, Jack W. Stuster, David F. Dinges *Journal of Women's Health*. Nov 2014: 975-986.

Effects of Sex and Gender on Adaptations to Space: Reproductive Health

April E. Ronca, Ellen S. Baker, Tamara G. Bavendam, Kevin D. Beck, Virginia M. Miller, Joseph S. Tash, Marjorie Jenkins *Journal of Women's Health*. Nov 2014: 967-974.





Publicado en Journal of Women's Health (Nov 2014)

Effects of Sex and Gender on Adaptation to Space: Neurosensory Systems

Millard F. Reschke, Helen S. Cohen, Jody M. Cerisano, Janine A. Clayton, Ronita Cromwell, Richard W. Danielson, Emma Y. Hwang, Candace Tingen, John R. Allen, David L. Tomko Journal of Women's Health. Nov 2014: 959-962.

The Impact of Sex and Gender on Adaptation to Space: Commentary

Saralyn Mark Journal of Women's Health. Nov 2014: 948-949.

Effects of Sex and Gender on Adaptation to Space: Immune System

Ann R. Kennedy, Brian Crucian, Janice L. Huff, Sabra L. Klein, David Morens, Donna Murasko, Cheryl A. Nickerson, Gerald Sonnenfeld Journal of Women's Health. Nov 2014: 956-958.

Effects of Sex and Gender on Adaptation to Space: Musculoskeletal Health

Lori Ploutz-Snyder, Susan Bloomfield, Scott M. Smith, Sandra K. Hunter, Kim Templeton, Debra Bembem Journal of Women's Health. Nov 2014: 963-966.

