The Department of Materials Science and Engineering at the University of Virginia is seeking outstanding candidates for a Research Scientist. This position is term-limited. Primary responsibilities include participating with the Cassini team members to develop rarefied gas dynamics models to provide planning, data analyses and data interpretation of measurements to be made by the Cassini spacecraft of Saturn's Atmosphere during its proximal orbits. This will include disseminating the scientific results at national conferences and in peer reviewed scientific journals. Secondary duties include writing scientific proposals to NASA and NSF to obtain funding to further research in the area of planetary evolution.

Skills in the following areas are essential: Knowledge of Direct Simulation Monte Carlo modelling for rarefied gas dynamics, Monte Carlo modeling of ballistic exospheres on planetary bodies, familiarity with the data from the INMS and CAPS instruments on Cassini, good oral and written communication skills, as well as attention to detail and good record keeping.

A Ph.D. in Engineering Physics or a related field with at least two years post-doctoral experience is preferred.

To apply, visit https://jobs.virginia.edu and search job posting number 0620345. Complete an online candidate profile and attach a cover letter, detailed curriculum vitae, and contact information for three references.

The University of Virginia is an equal opportunity / affirmative action employer committed to developing diversity in faculty at all levels and welcomes applications from women, minorities, veterans, and persons with disabilities.