GRADUATE PROGRAM IN PHYSICS with specialization in SPACE PHYSICS

A Joint Program between the University of Texas at San Antonio and Southwest Research Institute

To apply, visit www.utsa.edu

For more information, visit our website (grad.space.swri.edu) or contact Rob Ebert (rebert@swri.edu).
THE GRADUATE PROGRAM IN PHYSICS

Students in the program are prepared for a career in Space Physics through research-focused courses and investigations with space flight missions. Students work alongside world-class faculty in SwRI’s state-of-the-art facilities for construction and calibration of space flight instrumentation.

Our research-focused program has a high faculty to student ratio. Students are closely and personally mentored by their advisors.

SwRI’s Space Science and Engineering Division is a leader in space physics research. Faculty members have served as PI and Co-I for numerous NASA and ESA flight instruments and missions with involvement on IMAGE, New Horizons, ACE, Ulysses, STEREO, TWINS, Swift, TRICE-2, IBEX, MMS, LRO, Van Allen Probes, Cassini, Mars Express, GREECE, Rosetta, Juno, and Parker Solar Probe along with future missions such as Lucy, Solar Orbiter, JUICE, BepiColombo, Europa Clipper, IMAP, PUNCH, TRACERS, and CubeSat missions such as CeREs and CuSP.

UTSA

UTSA is one of the largest schools in the University of Texas system and has been ranked among the nation’s top six young universities by the Times Higher Education. The UTSA Department of Physics and Astronomy offers both M.S. and Ph.D. in Physics for areas such as Space Physics, Astrophysics, Material Science, Biophysics, & Nanotechnology.

In 2018, National Geographic named San Antonio to its “Best of the World” list, calling it a must-see destination. Among modern attractions, San Antonio is home to the historic Alamo and the River Walk which intersects museums and other World Heritage sites. The city is surrounded by the natural beauty of the Texas Hill Country and is only about an hour from Austin, the capital of Texas and the “live music capital of the world.”

SwRI

SwRI is headquartered in San Antonio, Texas, and has campuses around the world. With over 3,000 employees, SwRI is a world-renowned institution benefiting government, industry, and the public through innovative science and technology.

Space Physics Electives:
- Plasma Physics and Magnetohydrodynamics
- Fundamentals of Space Physics
- Solar and Heliospheric Physics
- Space Physics Laboratory
- Magnetoospheric Physics
- Ionospheric Physics
- Planetary Science

RESEARCH

SwRI’s Graduate Research Assistants have the unique opportunity to work on space flight instrumentation through instrument design, construction, and calibration, as well as conduct their own scientific research using current mission data sets. Students produce publications in high impact journals including Nature and Science. Additionally, SwRI/UTSA students present research at both national and international scientific conferences and serve on committees within the field.

ALUMNI

Alumni of the program are now at various universities, government labs, and research institutions:

- Southwest Research Institute
- The European Space Research and Technology Centre (ESTEC)
- Laboratoire d’Astrophysique de Marseille (France)
- University of California – Berkeley
- University of New Hampshire
- University of Iowa
- Boston University
- NASA GSFC
- JHU APL