

## **Postdoctoral Position in Space Radiation Simulations for Astronaut Health Applications**

Applications are being accepted for a postdoctoral research position focused on space radiation simulations. The overall goals of the project include implementing GEANT4 simulations in support of radiation risk calculations for NASA astronauts and extending health effects calculations to the DNA scale using the GEANT4 DNA database. This project includes opportunities for collaboration with NASA personnel at multiple NASA centers as well as opportunities to gain experience using transport codes specially developed for NASA applications. Concurrent research group efforts include nuclear cross-section calculations for high energy scattering as well as the simulation of radiation effects on atmospheric chemistry. Minimum requirements include a Ph.D. in physics or a closely related field and extensive experience developing GEANT4 simulations. Experience in simulations using the GEANT4 DNA database is preferred, but not required. Due to ITAR restrictions on certain NASA software, applicants must be a U.S. person as defined under ITAR (see [www.pmddtc.state.gov/regulations\\_laws/itar.html](http://www.pmddtc.state.gov/regulations_laws/itar.html) for additional information.) Applications must be submitted online at <https://jobs.usm.edu> (job posting #0003725). Applicants must submit a letter of interest outlining their qualifications for the position, a curriculum vita, and contact information for at least three references. Review of applications will begin immediately and will continue until the position is filled. If you have questions about the position, you may contact Dr. Chris Winstead at [chris.winstead@usm.edu](mailto:chris.winstead@usm.edu). As an Affirmative Action/Equal Employment Opportunity employer/Americans with Disabilities Act institution, The University of Southern Mississippi encourages minorities, women, veterans and persons with disabilities to apply.