

**SAN DIEGO STATE UNIVERSITY**

**Information for Graduate PHYSICS Programs**

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**Degrees offered in the Dept. of Physics**

* Master of Science, Physics (thesis)
* Master of Arts, Physics (non-thesis; graduation by exam)
* Master of Science, Medical Physics, accredited by Commission on Accreditation on Medical Physics (CAMPEP)
* Joint Ph.D in Computational Science through the Computational Science Research Center (for more information contact Dr. Weber above or the director of the CSRC, Dr. Jose Castillo, jcastillo@mail.sdsu.edu)

**Program Highlights**

* MS Physics students are successful in industry, national labs, and Ph.D programs.
* MS Medical Physics students are successful in residency programs, Ph.D programs, and the medical devices/technology industry.
* PhD Computational Science students are successful in national labs and academia.
* Favorable student-to-faculty ratio with graduate physics courses averaging about 10 students. Full-time faculty teach all graduate lectures and laboratory courses
* Close student-faculty contact
* Financial support is available for most of our qualified Master's students as Teaching Assistants (TAs) or Research Assistants (RAs).
* Master's students co-author journal publications, present at national/international conferences: many have won awards at national labs, SDSU and CSU research symposia, AIP travel awards.
* Physics and Computational Science students intern with local industry and national labs (Los Alamos, Lawrence Livermore, Lawrence Berkeley, Oak Ridge).
* Strong industry affiliations: e.g., Cymer (San Diego-based optics technology leader) gifted $300,000 to Physics and recruits students from our program each year.
* More than 50% of our graduates go on to nationally recognized PhD programs.
* MS program in Medical Physics is one of only two CAMPEP accredited graduate programs in California.
* A hub-spoke residency training in Medical Physics provides a pathway for students graduating from the MS in Medical Physics program.

**Student Research Projects**

All graduates in MS (Physics) and those choosing the Thesis option in the MS (Medical Physics) programs undertake a research project culminating in a thesis. Each project is undertaken under the supervision of our faculty in the following research fields:

• **Experimental Optics**: Electro-optics, ultrafast lasers and quantum optics, non-linear optics, nanophotonics

• **Theoretical and Computational**: Polymers & biophysics, nuclear & particle, nuclear/relativistic astrophysics/ general relativity, optical.

• **Experimental Condensed Matter**: Superconductivity, magnetism, and material synthesis.

• **Medical and Radiological Physics**: Functional and structural magnetic resonance imaging and image processing, radiation biology, radiation therapy, CT dose, detectors and nuclear instrumentation.

**General Requirements**

Masters Students must complete core courses as well as electives requirements and all-university graduation requirements. Details can be found in the San Diego State University Graduate Bulletin available online.

**IMPORTANT DEADLINES FOR GRADUATE APPLICATIONs**

The deadlines for the applications to the Masters programs In Physics, Medical Physics and the Joint PhD program are available at: http://arweb.sdsu.edu/es/admissions/grad/