Physics

Research opportunities in theoretical/computational physics are available in astrophysics, biophysics, chaos, condensed matter, nanoscience/nanomaterials, nuclear and particle physics, and relativity. Research opportunities in experimental physics are available in astronomy, atomic and molecular physics, biophysics, emergent phenomena, materials physics, nanoscale science, nonlinear systems, nuclear and particle physics, optics, soft-condensed-matter physics and technology, and surface physics.

Admission Requirements

Bachelor's degree in physics or equivalent and related. General GRE and the GRE Physics subject test are accepted, but not required.

Master's Degree Requirements

A minimum of 30 credit hours beyond the Bachelor's degree with demonstrated mastery of aspects of the physics curriculum. Thesis and nonthesis options.

Doctoral Degree Requirements

A minimum of 72 credit hours beyond the Bachelor's degree with demonstrated mastery of the core physics curriculum (PY721, PY782, PY783 and PY785); pass an oral preliminary exam, prepare a dissertation, and an oral final defense.

Student Financial Support

Graduate teaching assistantships are available for new and continuing students. Research assistantships are available to continuing students and occasionally to new students. More than 95% of students are supported by assistantships.

Degrees

- Physics (MS) (http://catalog.ncsu.edu/graduate/sciences/physics/physics-ms/)
- Physics (PhD) (http://catalog.ncsu.edu/graduate/sciences/physics/physics-phd/)

Faculty

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David E. Aspnes
Robert J. Beichner
Jerzy Bernholc
John Michael Blondin
John D. Brown
Laura I. Clarke
Karen E. Daniels
William L. Ditto
Daniel B. Dougherty
Robert Golub
Kenan Gundogdu
Hans D. Hallen
Paul R. Huffman
Chueng Ryong Ji
Jacqueline Krim
Gail C. McLaughlin
Lubos Mitas
Robert Riehn
Christopher M. Roland
Maria C. Sagui
Thomas M. Schaefer
John E. Thomas
Mithat Unsal
Keith R. Weninger
Albert R. Young

Associate Professors

Carla Frohlich
Alexander Kemper
James P. Kneller
Shuang Fang Lim
Richard Leigh Longland
Hong Wang

Assistant Professors

Julio Monti Belmonte
Rongmon Bordoloi
Mary Williard Elting
Matthew Piron Green
Sebastian Konig
Divine Phillip Kumah
Sharonda Leblanc
Katherine Jean Mack
Vladimir Skokov
Dali Sun

Practice/Research/Teaching Professors
Jason Russell Bochinski
Kazimierz Borkowski
Abay Dinku
Brand Irving Fortner
Keith Heyward
Parminder Kaur
John H. Kelley
Hayen Leendert
Kent Leung
Wenchang Lu
Vijaya Mehta
Zodiac T. Webster

Emeritus Faculty
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Kwong T. Chung
Raymond E. Fornes
David G. Haase
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Stephen R. Cotanch
William Robert Davis
Donald C. Ellison
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