



PROGRAM:

The Department of Physics offers the Ph.D. in experimental and theoretical condensed matter physics and biophysics. Our faculty has research programs focusing on Nanoscience, Electronic Materials, Biophysics, Soft Matter, Computational Physics, and Energy Physics. Research and advanced laboratory equipment available includes a variable-temperature scanning tunneling microscope (STM), a room temperature STM/atomic force microscope (AFM), an x-ray computed tomography (CT) system, a scanning electron microscope (SEM), a SQUID magnetometer, and a low-temperature pulsed magnetic field system.

The Clark graduate program in physics differs from most other physics graduate programs in the United States. For example, we encourage students to become involved in research as early as their first semester. As a result, most graduate students make an early transition from classroom work to the more active learning processes involved in doing research. Our formal courses are used to develop competency in the core areas of physics and to help the faculty evaluate student proficiency in formal classwork. Instead of a written qualifying examination, we utilize a series of oral examinations to encourage the development of students' intuition and ability to think simply. Clark's style of graduate education is best suited for students who have a desire to be independent, are willing to work hard, and who wish to have close ties with the faculty. Clark offers opportunities seldom found elsewhere.

THE UNIVERSITY:

Clark University is a private liberal arts institution with a full-time student body of approximately 2,200 undergraduates and 975 graduate students. Founded in 1887 - the second oldest graduate institution in the nation - Clark University continues its strong commitment to graduate education. Clark University is centrally located in Worcester, Massachusetts in the vicinity of museums, theaters, concert halls, and eclectic cuisine while still being in close proximity to parks and trails which allow for outdoor hiking and recreation. In addition, Clark University is located an hour's drive from Boston, Providence, and Hartford.

DEPARTMENT FACULTY:

CHARLES AGOSTA: Properties of organic superconductors and other materials in high, pulsed magnetic fields and low temperatures. Experiment and simulation of heat transfer in transonic gas mixtures

MICHAEL BOYER: Electronic and structural properties relevant to correlated electron systems, molecular studies, scanning tunneling microscopy

S. LESLIE BLATT: Physics education and teacher training, curriculum development, science and society

HARVEY GOULD: Statistical physics and computer simulation

ARSHAD KUDROLLI: Far from equilibrium physics, granular matter, biomechanics, and self-assembly

CHRISTOPHER LANDEE: Experimental condensed matter physics, low-dimensional quantum magnetism, magnetochemistry

RANJAN MUKHOPADHYAY: Theoretical condensed matter physics, complex fluids, biophysics

TEACHING AND RESEARCH ASSISTANTSHIPS

The Department awards a number of teaching and research assistantships each year. All students admitted as full-time students receive tuition remission and a twelve month stipend. Please submit your application materials by February 1. The GRE is recommended, but not required, and each applicant is considered individually.

INQUIRIES, ONLINE APPLICATIONS:

GRADUATE ADMISSIONS

Department of Physics

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Graduate Program in Condensed
Matter Physics

