Opportunities with a Physics MS Degree

Nationally, MS Physics graduates are highly employable across all economic sectors. Graduates can pursue a wide variety of exciting opportunities in the private sector, government labs and agencies, and university-level and secondary education.

Data from the American Institute of Physics show over 90% placement of MS Physics graduates nationally within one year of earning the degree:

The Physics MS program is designed to provide flexible options that can be tailored to the specific career goals and disciplinary interests of students.
The RIT Physics MS

The RIT Physics MS Program offers two options. Both options comprise a minimum of 30 credit hours of study and provide a solid underpinning of advanced physics training.

The **Research Physics Option** aims to leverage acquired physics knowledge to advance the student’s research training and culminates in a Master of Science thesis.

The **Professional Physics Option** supplements advanced physics knowledge with professional skills electives tailored to an individual’s career goals.

Full-time students can generally complete the Research Physics Option in two academic years and the Professional Physics Option in one and a half years.

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Science Elective Courses

- Computational Physics
- Solid-state Physics
- Materials Physics
- Gravitation
- Device Physics
- Nanoscale Physics
- Soft Matter Physics
- Biological Physics
- Modern Optics
- Quantum Optics
- Spectroscopy
- Scattering
- Relativity
- Radiation
- Lasers

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Professional Skills Elective Courses

- Promoting Innovation and Sustainable Technologies
- Entrepreneurship and Intellectual Property
- STEM Pedagogy and Education Research
- Organization and Leadership
- Managing Research Teams
- Finance and Accounting
- Communication Skills
- Scientific Visualization
- Data Science
- Electronics
- Public Policy

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Research Opportunities

- Optical Physics, Quantum Optics, Photonics, and Optomechanics
- Quantum Information and Computing
- Laser Cooling and Trapping
- Numerical and General Relativity
- Gravitational Wave Physics
- Computational Astrophysics
- Galactic Evolution and Dynamics
- Dark Matter and Black Hole Physics
- Experimental and Observational Cosmology
- Physics of the Cell Cytoskeleton, Cartilage, and Diseases of the Eye
- Biological Physics
- Soft Matter Physics
- X-ray and Neutron Science
- Materials Physics

For the complete list of opportunities, please visit: www.rit.edu/programs/physics-ms