

Color Science Graduate Education at RIT

M.S. and Ph.D. Programs

OVERVIEW

Rochester Institute of Technology offers Masters and Doctoral degrees in Color Science. These are the only graduate programs in the United States devoted to the science of color. Color science is broadly interdisciplinary, encompassing physics, chemistry, physiology, computer science, psychology and statistics. These programs are designed for students whose undergraduate degrees are in physics, chemistry, imaging science, computer science, electrical engineering, experimental psychology, or any technical discipline pertaining to the quantitative description of color.

MCSL
MUNSELL COLOR SCIENCE LAB

The Color Science program has a unique resource, the Munsell Color Science Laboratory (MCSL) with significant research encompassing diverse topics such as spectral color reproduction, color & image appearance modeling, 3D imaging & archiving of cultural heritage, measurement & modeling of material appearance, high-dynamic-range imaging &

display, and image rendering.

RIT has a long history of scholarship in this area through several academic programs including the

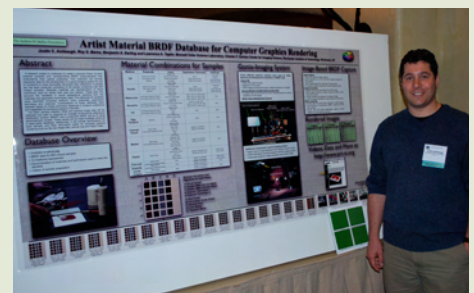
Color Science M.S., founded in 1986, the Imaging Science M.S. and Ph.D. programs, and programs in Electrical Engineering, Quality & Applied Statistics, Printing Management & Sciences, and Computer Science.

In addition laboratories in the Chester F. Carlson Center for Imaging Science, such as MCSL and the Multidisciplinary Vision Research Lab, color science research is carried out across the RIT campus. The Color Science graduate faculty includes members from the School of Print Media, the Department of Psychology, and the Department of Computer Science.



JOB PLACEMENT

The job placement rate has 100% since the commencement of Color Science programs over 25 years ago. Graduates are in high demand and typically accept industrial positions in digital imaging, color instrumentation, colorant formulation, and basic & applied research. Employers include Apple, Benjamin Moore, Canon, Disney, Dolby, DuPont, Eastman Kodak, Gemological Institute of America, Hewlett Packard, Hunter Associates Laboratory, International Paper, Microsoft, OmniVision, Philips, Samsung, Texas Instruments, Xerox, and X-rite.



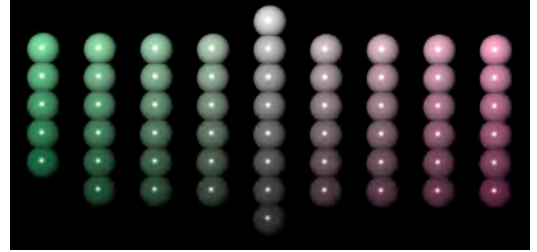
RIT Color Science students, alumni, faculty, and staff often participate in international conferences on color science and technology around the globe.

Color Science @ RIT

CURRICULUM

Both M.S. and Ph.D. candidates begin with eight core courses totaling 28 quarter credit hours: The Human Visual System, Applied Colorimetry, Computing for Color Science, Color Measurement Laboratory I and II, Color Appearance, Color Science Seminar, and Color Modeling. For M.S. students, electives and research bring the total to 45 credits. Ph.D. students must earn 99 credits, including a minimum of 60 credits of coursework, a three-quarter research project during the second year of study, and a research dissertation. Students must pass a qualifying examination during their second year of study and a candidacy examination at least

one year before completing their dissertation. A minimum of 27 credits of research, including the second-year research project, is required. The M.S. program typically requires 2 years of full-time study while the Ph.D. program normally requires 4-5 years.



ADMISSION REQUIREMENTS

- Graduate Application with Personal Statement of Educational Objectives
- Earned Baccalaureate Degree with GPA of 3.0 or Higher
- Official Undergraduate Transcript
- Graduate Record Examination (GRE)
- Two Professional Recommendations
- TOEFL Score of at Least 240 (computer-based), 587 (paper-based), 94 (internet-based) (International Students)
- TSE-A Score of at Least 250 (International Students)
- Scientific Reasoning, Technical Writing, and Verbal Communication Skills are Particularly Important
- Foundation Course Work with 3.0 GPA or Higher (if required, e.g. Calculus, Physics w/Lab, Programming, Statistics, etc.)
- On-Campus Interview (when possible)

FINANCIAL AID

Scholarships and assistantships available for qualified color science applicants include the Macbeth-Engel Fellowship, Grum Memorial Scholarship, Saltzman Memorial Scholarship, Munsell Color Science Laboratory Assistantship, Center for Imaging Science Assistantship, and research assistantships associated with ongoing grants and contracts. Students receiving fully funded assistantships tend to have undergraduate cumulative grade point averages of 3.5 or higher and exceptional GRE scores. Applicants whose native language is not English must have TOEFL scores above 600 (paper-based), 250 (computer-based) or 100 (Internet-based) and TSE-A scores above 250. Partial assistantships also are awarded. Applicants seeking financial assistance must submit all application documents to the Office of Graduate Enrollment Services by January 15 for admission the following September (Fall Quarter).



COLOR SCIENCE FACULTY

Professor

Dr. Roy S. Berns
Dr. Mark D. Fairchild
Dr. James Ferwerda
Dr. Franziska Frey
Dr. Joseph Geigel
Dr. Jinwei Gu
Dr. Andrew Herbert
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