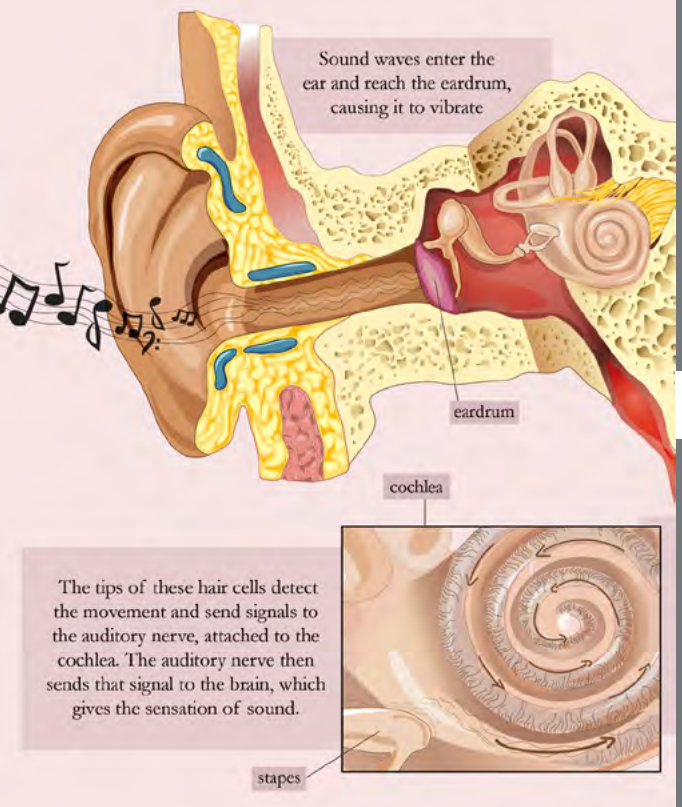
BIOMEDICAL VISUALIZATION

Customize Your Degree

Popular CUGS (Certificates of Undergraduate Study)

Game Media Design, Paleo Art and Visualization, Forensic Studies, Geographic Information Systems, Creative Industries Enterprise, Advertising and Graphic Design



WHY CHOOSE BMV?

The Biomedical Visualization BFA program at Rowan University is a nationally distinctive program at the intersection of art, science, medicine, and technology. Students learn to translate complex scientific and biomedical concepts into compelling visual media, ranging from traditional and digital illustration to 2D and 3D modeling and animation, interactive design, game media design, and immersive virtual reality experiences. Grounded in a strong foundation of biology, anatomy, and biomedical sciences, the program emphasizes the creative and technical skills needed to communicate with precision, clarity, and imagination. Students benefit from unique partnerships across Rowan's health sciences, medical, veterinary, engineering, and biomedical campuses and programs, providing extensive opportunities for interdisciplinary collaboration and experiential learning. By integrating scientific competencies with digital artistic practice, industry-standard software, immersive technologies, and emerging tools such as generative AI, students develop visual solutions that inform, educate, and inspire audiences across healthcare, research, education, and media industries. Graduates leave the program with competitive portfolios that reflect the future of biomedical visualization.

Learn more

THE BOTTOM LINE

The Biomedical Visualization BFA program at Rowan University is truly a destination major for students interested in working at the intersections of art, science, medicine, and technology. Our program provides students with unparalleled access to health and science partnerships across our campus, ensuring that graduates of our program are well-equipped to enter an exciting and evolving industry.

RowanUniversity
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BIOMEDICAL VISUALIZATION QUICK FACTS


Zoe Marino

"Rowan's BMV program has granted me the opportunity to develop a robust set of artistic skills and knowledge in the forever evolving field of biology. Our Surgical Illustration course has prepared me for my future by delving into the communication of surgical procedures through art. Being able to observe and illustrate a live surgery is an unforgettable and one of a kind experience."

Potential Career Paths

Medical and Scientific Illustrator
Biomedical 3D Modeler and Animator
Healthcare Graphic and User Experience (UX) Designer
Educational Visualization Specialist
Serious Game, Interactive Media, and VR Simulation Designer

Avg. Classroom Size

12

Employer Snapshot

Medical illustrators at Red Nucleus and Medscape
Scientific communicators and designers at AstraZeneca and National Geographic
Medical-legal illustrators at Anatomical Justice LLC
Digital cartographers at Critical Response Group
Visualization Information Specialist at US Government Department of Defense (Air Force)
Graphic Artist at Massachusetts Institute of Technology (MIT) Lincoln Laboratory

Graduate Student Placement

Johns Hopkins Art as Applied to Medicine
Baylor College of Medicine
Rowan School of Osteopathic Medicine and other nationally recognized programs

Internship Sites

Cooper Medical School
Rowan-Virtua School of Osteopathic Medicine
Cooper Hospital
Machine and Artificial Intelligence Virtual Reality Center (MAVRC)
Schreiber School of Veterinary Medicine
Partner institutions across the New Jersey, New York, and Pennsylvania regions

Student Clubs

Biomedical Art & Visualization Club
Biomedical Visualization Exhibition Book

Experiential Learning

- The Biomedical Visualization Surgical Illustration and Media Course: Students gain hands-on experience in surgical settings, observing real procedures alongside physicians to create accurate, educational medical illustrations and media.
- BMV students engage in a wide range of experiential opportunities, including visiting artist talks from industry professionals, field trips to regional science and cultural institutions, online events through national professional organizations, and mentoring workshops with portfolio reviews led by experts in the field.