

# RENSSELAER

## GRADUATE STUDY PROGRAMS

### MASTER OF ARCHITECTURE

While contemporary architectural practice is required to meet increasingly stringent requirements for environmental and social responsiveness, it is also being transformed by technologies of visualization, simulation, new materials, and fabrication. We educate future professionals with the critical insight, technological skills, and creative imaginations to make tangible contributions to the culture and the environment. To do so, requires a transformation of architectural practice to one increasingly characterized by research, creativity, and innovation—one able to draw from and synthesize disparate bodies of knowledge. The program builds a community of diverse intellectual and cultural traditions to collectively engage in creative and experimental design practices.

**Ted Krueger**, M.Arch Program Director

#### ELIGIBILITY

**M.Arch I Professional Degree:** Applicants with a baccalaureate in any discipline are eligible for the program. Students come from the full range of liberal arts, design, and engineering disciplines and are able to show evidence of both analytical and creative ability. Competitive, merit-based scholarships are available to qualified applicants.

**M.Arch II Post-Professional Degree:** Students with a professional degree in architecture are eligible for the program. Qualified applicants are considered for competitive, merit-based scholarships.

### ARCHITECTURAL ACOUSTICS

The School of Architecture offers the largest and most comprehensive program in Architectural Acoustics in North America. The program develops the knowledge and skills required for advanced consultancy, research, and teaching. Graduates are active in leading acoustical practices worldwide and take positions at research centers and national laboratories. The PhD program provides a unique opportunity in architectural acoustics by generating scientific research for advanced work in room acoustics, psychoacoustics, acoustic and vibration measurement techniques, noise control, and sound reinforcement. Research is supported by the National Science Foundation and other federal agencies. The program has an ongoing relationship with Rensselaer's innovative Experimental Media and Performing Arts Center, among other institutions.

**Ning Xiang**, PhD, Architectural Acoustics Program Director

#### ELIGIBILITY

The program offers an interdisciplinary curriculum appropriate to applicants from engineering, science, humanities, architecture, and the arts. Many students are accomplished musicians.

ARCHITECTURE is situated at a unique moment in history where a convergence of global interests demands that our discipline respond in a critical and innovative manner. Faced with an ever-increasing focus on creating new forms of renewable energy, smart grids and coastal city solutions, computational engines, immersive environments, and ecologically sound building components for the 21<sup>st</sup> century, the profession of architecture has inherited a wealth of trans-disciplinary priorities that calls out for a new era of creative inquiry and engagement.

### THE SCHOOL OF ARCHITECTURE

### LIGHTING

The Graduate Program in Lighting offers the premier Masters and PhD degrees in lighting to those seeking a multi-disciplinary graduate education at the Lighting Research Center (LRC)—the most respected university-based research center in the field. LRC graduates work in the lighting industry, universities, research laboratories, and prestigious design firms. Graduates pursue careers in architectural lighting design, product design, both basic and applied research, application engineering, lighting education, and other lighting-related areas. The LRC is the best-equipped university-based lighting and daylighting laboratory in the United States and offers an unmatched opportunity to work at the forefront of a field increasingly recognized as having a significant impact on energy efficiency and on the quality of life and health.

**Russ Leslie**, Lighting Program Director

#### ELIGIBILITY

Applicants to the Graduate Program in Lighting have backgrounds in physics, biology/optics, engineering, and architecture.

### BUILT ECOLOGIES

The Graduate Program in Built Ecologies develops innovative buildings systems, structures, and ecologies informed by the behavior of natural systems and emerging technologies. The program creates next-generation systems and strategies that operate synergistically with larger ecologies. The Center for Architecture Science and Ecology (CASE) is a unique educational and research collaboration between Rensselaer Polytechnic Institute and Skidmore, Owings and Merrill, LLP (SOM). CASE is co-located at SOM in New York City and at Rensselaer's campus in Troy, NY. Research at CASE addresses the need for radically improved, energy-effective, and sustainable built environments. Current research includes integrated and distributed on-site energy harvesting, transformation, storage and redistribution, bio-mechanical air filtration, and dynamic daylighting systems.

**Anna Dyson**, Built Ecologies Program Director

#### ELIGIBILITY

The Built Ecologies program attracts students with backgrounds in architecture and design, engineering, physics, biology, and ecology.

#### GENERAL INFORMATION

Applications: First consideration is given to applications received by January 1st. Applications are made online at [admissions.rpi.edu/graduate](http://admissions.rpi.edu/graduate)

#### CONTACT

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