

College of Architecture & the Built Environment

# Master of Urban Design - Future Cities (MUD)

Jefferson.edu/MUD

# Program Highlights

- Design research oriented post-professional program (2 years)
- Focus on Sustainability, Urban Resiliency, People's Health and Smart Technologies
- Use advanced methods and tools for urban data analytics, computational design, environmental simulation, and VR/AR
- Hold strong partnerships with the world-leading architectural and urban design firms
- Offer interdisciplinary research opportunities
- STEM designated program (CIP Code 15.1001)



Design studio explores augmented reality (AR)

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#### **Innovative Teaching**

- Conduct research-oriented design studios
- Explore data-driven, AI-powered urban design and analytics
- Study and design for the futures of major international cities through traveling studios, funded research, exchange programs and international conferences.
- Collaborate with internal and external faculty members, researchers and experts on interdisciplinary research
- Partner with world top universities, leading architectural and urban design firms, local governments and other nonprofit organizations



#### Research & Publication

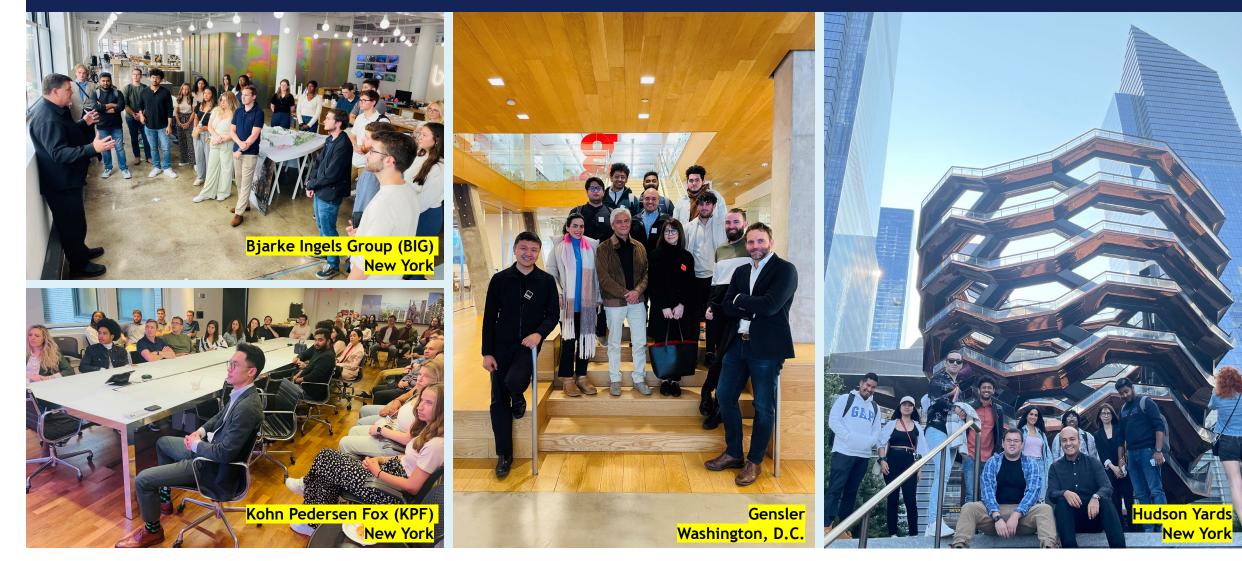
- The faculty and students in the Master of Urban Design (MUD) program collaborate with partners from government, academia and industry on a variety of funded research projects.
- The following research topics are the main research interests in the program, and have led to numerous peer-reviewed publications:
  - 1. Urban Data Analytics
  - 2. Computational Urban Design
  - 3. Urban Heat Resilience
  - 4. Environmental Simulation
  - 5. Zero-Carbon Cities
  - 6. High-Density and Tall Buildings
  - 7. VR, AR and Mixed reality (MR)



Industry Partnership: Teaching, Research and Internships



### Office & Site Visit



# Curriculum (48 credits - two years)

Year	Semester	Course	<b>Credits</b>
1	Fall	MUD 601: Master Studio - Towards Sustainable and Smart Cities	6
		MUD 607: Introduction to GIS	3
		MUD 606: Modeling Urban Environmental Performance	3
1	Spring	MUD 621: Master Studio - Resilient Cities and Communities	4
		MUD 623: Studio Companion: Ecological Systems for Resilient Communities	2
		MUD 617: Advanced GIS for Urban Planning and Design	3
		MUD 604: Emerging Design and Technology for Future Cities	3
2	Fall	MUD-603: Master Studio - Decarbonizing Cities	6
		MUD-631: Research Methods	3
		MUD 602: History and Theory of Urban Design	3
2	Spring	MUD-605: Master Thesis Studio	6
		Graduate Seminar / Focus Elective	3
		Graduate Seminar / Focus Elective	3

# Admissions Information

- Fall Priority Application Deadline:
  February 1
- International Student Fall Application Deadline: May 15
- Required Materials:
  - 1. Transcripts
  - 2. Personal Statement
  - 3. Two Letters of Recommendations
  - 4. Resume
  - 5. Portfolio
  - 6. English Language Exam Result (if applied):

TOEFL/IELTS/Duolingo/Pearson PTE Academic

• Prerequisites:

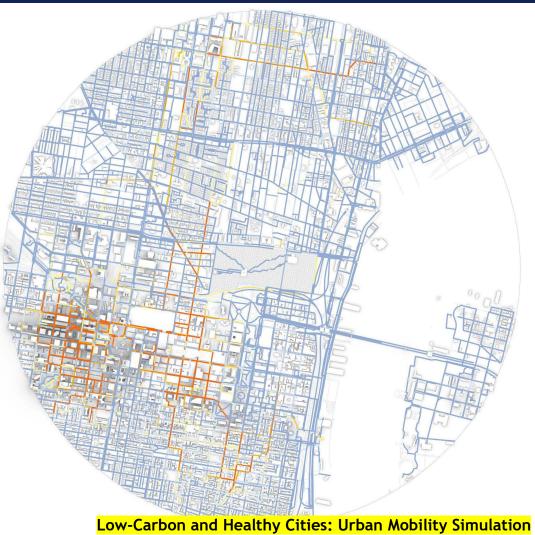
- 1. Bachelor's degree
- 2. Minimum 3.0 cumulative GPA



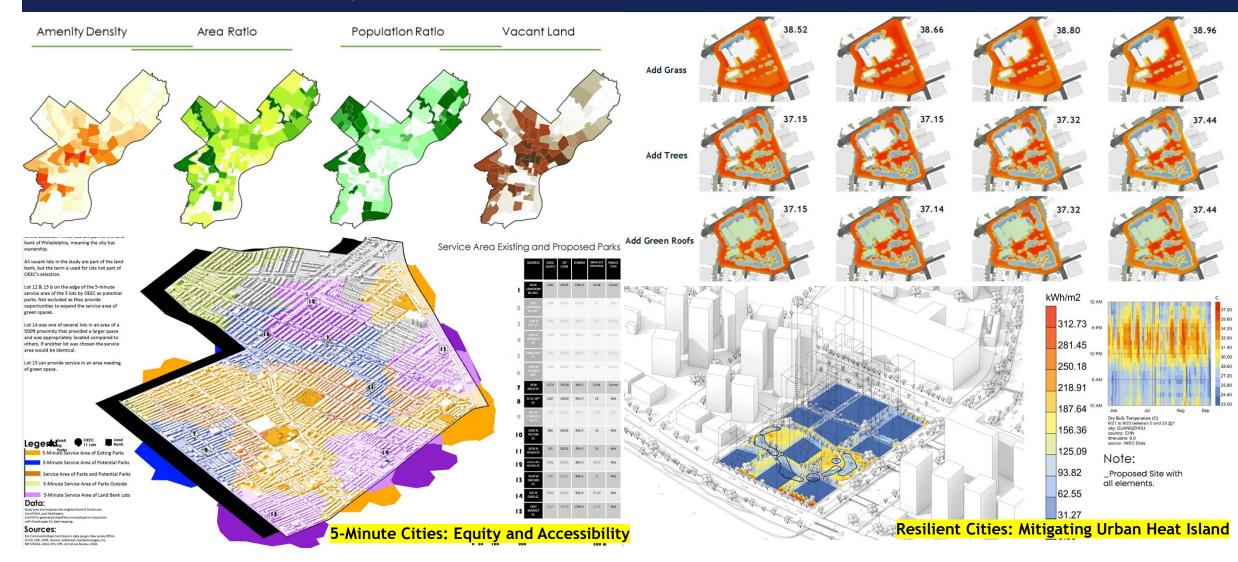
# Selected Student Projects







# **Selected Student Projects**



# **Thomas Jefferson University**

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