

Atlanta Airport City Design

Project Lead(s):

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Michael Balchanos, Aerospace Systems Design Laboratory (ASDL), School of Aerospace Engineering, Georgia Tech

Gerald McDowell, ATL Airport Community Improvement Districts (AACIDs)

Project Work Location:

ATL Airport Community Improvement Districts - 3800 Camp Creek Pkwy SW Building 1400, Suite 132, Atlanta, GA 30331

(Partially at Eco Urban Lab at the College of Design and Aerospace Systems Design Laboratory (ASDL) at the School of Aerospace Engineering, Georgia Tech, actual time to be determined)

Project Description:

Airport cities are emerging as a global city landscape. Many global cities are turning their “city airport” to “airport city”, in which city centers are built around globally significant airports. Hartsfield-Jackson Atlanta International Airport as the largest hub of the U.S. and as an “urban center” has 110-million passengers in 2019, a daily average of 300,000 people flowing in/out. The future airport city hub is a transportation interchange, a complex urban system that contains flows of people, goods, energy, water and information. Airports and airline operations have been significantly affected due to Covid-19. How will the future airport city system be redesigned to become safer, cleaner, nimbler and more resilient to mitigate the impact, while being able to adapt to future disruptions? The internship will participate in the research and planning work with AACIDs and Georgia Tech on the post Covid-19 future airport city as smart systems design.

Project Webpages:

Eco Urban Lab: <https://planning.gatech.edu/eco-urban-lab> ;

ASDL Digital Engineering: https://www.asdl.gatech.edu/Digital_Engineering.html

AACIDs: <https://aacids.com>

Project Learning Goals:

Students who successfully complete this internship will be able to:

- be familiar with issues and challenges of future airport city
- learn methods and techniques of smart city systems design
- develop teamwork

Top Desired Intern Skills:

GIS and data analytics, mobility modeling, or urban design master planning

Intern Deliverables:

An airport city planning research report.