

Transforming mobility with eVTOL

Vertiport infrastructure solutions



We are partnering with aircraft manufacturers and transportation innovators as they rapidly advance new eVTOL technology.

AECOM and Ferrovial have partnered to design a network of vertiports connecting strategic locations in major Florida cities

The future is about to take off

Electric vertical take-off and landing (eVTOL) aircraft are set to kickstart a new era of urban air mobility. Our comprehensive solutions will help vertiport developers, airports, eVTOL original equipment manufacturers (OEMs), infrastructure owners and operators (IOOs), and federal agencies to advance eVTOLs while lowering emissions, noise and costs — and safely and efficiently moving people in these environments. Our solutions include:

Vertiport design

Combining traditional passenger terminal design and logistics expertise to new urban air mobility (UAM) technologies

System impact analysis

Understanding the broad impact of eVTOL on the overall system

Infrastructure flexibility

Adapting existing systems to support eVTOL

Network planning

Scaling efficient transportation across networks

Modularity

Creating scalable solutions that can prefabricated

Technology

Integrating eVTOL charging technology with existing infrastructure

Multimodal transport integration

Planning for eVTOL as part of a larger system

Aviation planning

Passenger processing, air space analysis, procedure and route planning

Delivering vertiport infrastructure

It's not just about airports — infrastructure owners, developers, logistics operators and eVTOL manufacturers must work together to design infrastructure to support the development of the UAM industry. Here's how we can help:

Airports

- eVTOL terminal design and engineering
- Passenger movement modeling
- eVTOL concept of operations (ConOps)
- Charging infrastructure design

Private developers/logistics operators

- Greenfield vertiport or modification of existing structures
- Aircraft movement modeling
- Last mile planning
- Charging infrastructure design

Surface Infrastructure Owners and Operators (IOOs)

- Vertiport feasibility studies and economic studies
- Airspace analysis
- People movement logistics

eVTOL manufacturers

- Concept development support and scenario planning
- Vertiport modularity planning
- Local mobility and transportation planning
- Charging infrastructure planning services

Leading the industry

As leaders in vertiport design, UAM, zero emissions technologies and transportation planning, our team is advancing the adoption of new mobility technologies.



Created a vertiport model that aligns with an owner/operator proforma and eVTOL operational metrics



Charging-as-a-service: a unique delivery model that accelerates charging infrastructure deployment to realize benefits early, reduce risks, and optimize operational costs



Our proprietary tools can provide vertiport developers and eVTOL owners/operators with support with demand and passenger models inclusive of net carbon reduction to drive revenue



Founders of industry organizations that promote alternative, connected mobility solutions

300+

Global leader in the integration of direct-current (DC) fast charging infrastructure with utilities



Driving a net zero approach to UAM

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle — from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a *Fortune 500* firm and its Professional Services business had revenue of \$13.3 billion in fiscal year 2021. See how we are delivering sustainable legacies for generations to come at [aecom.com](https://www.aecom.com) and [@AECOM](https://www.aecom.com).

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