



## Joshua Lathan

### Education

Bachelor of Environmental Design,  
University of Colorado, Boulder

### Years of Experience

With AECOM: 12

With Other Firms: 0

Joshua Lathan is an urban planner with a bachelor's degree in Environmental Design and is currently completing his master's degree in City and Regional Planning. Since joining AECOM, Mr. Lathan has been deeply involved in climate action planning and greenhouse gas (GHG) emissions analysis. He has authored more than 30 climate action plans that define local emissions targets and reduction strategies, and presented the results to elected officials, local government staff, and community organizations. He has also contributed to the technical analysis of community inventory calculations and projections for cities, such as Los Angeles, Chicago, Quito, Medellín, and Mexico City. He has collaborated with AECOM colleagues on the development of climate action planning tools that help facilitate technical aspects

of the process for city governments, including data collection and testing of the CURB tool and management of a climate action prioritization tool. He is currently assisting cities in Latin America with climate action planning to develop plans that are consistent with C40's CAP Framework.

### Experience

**Medellín CAP Framework Analysis, Medellín, Colombia.** GHG Mitigation Lead. AECOM was hired by C40 to act as City Consultant for Medellín on its efforts to develop a climate action plan consistent with C40's CAP Framework. Mr. Lathan led a review of the city's efforts to date to compare against requirements in the CAP Framework and helped to summarize areas where further analysis is needed. Mr. Lathan is currently leading aspects of this additional analysis, including reviewing baseline inventory revisions to the Basic and Basic+ GPC sectors, estimating GHG forecasts through the new 2050 target date, and updating three GHG reduction scenarios based on stakeholder input.

**Quito CAP Framework Analysis, Quito, Ecuador.** GHG Mitigation Lead. AECOM was hired by C40 to act as City Consultant for Quito on its efforts to develop a climate action plan consistent with C40's CAP Framework. Mr. Lathan led stakeholder interviews with City department staff and other agencies to establish a baseline GHG reduction scenario that incorporates existing and planned actions through 2050. He then developed materials for a two-day GHG mitigation and adaptation workshop, including presentations and handouts, and led an interactive breakout group exercise to demonstrate how climate actions are quantified to estimate reduction potential.

**Rockefeller Foundation, 100 Resilient Cities O'ahu Resilience Strategy, Honolulu, HI.** GHG Mitigation Lead. In 2016, Honolulu was selected among 100 global cities for the 100 Resilient Cities Program sponsored by the Rockefeller Foundation. AECOM was selected to act as the Strategy Partner for the City and County of Honolulu (City) and worked with the Office of Climate Change, Sustainability and Resiliency (CCSR) on this project. As part of this role, AECOM provided technical assistance to the City in greenhouse gas (GHG) emissions analysis to support resilience action development and build the foundation for a future Climate Action Plan. Mr. Lathan supported the city in developing its first community GHG inventory and forecasts, and then designed an interactive group exercise to facilitate stakeholder discussion and selection of GHG reduction actions to achieve three increasingly ambitious targets. He presented to stakeholder groups to introduce the climate action planning framework, facilitated group exercises on GHG reduction strategy selection, and developed an action prioritization process to filter the City's initial long-list of actions down to the top priorities for inclusion in the island's Resilience Strategy.

**C40 Climate Action Prioritization Tool.** Project Manager. AECOM is developing a decision-support tool and user guide for C40 Cities to help member cities through the process of prioritizing among a long list of potential climate actions. The project has included extensive user interviews to identify a baseline understanding of how the tool would be used in various political and technical settings, with strong research emphasis on Latin America, Africa, and Southeast Asia. Mr. Lathan has served as project manager and technical contributor, coordinating among AECOM's team of specialists in multi-criteria assessments, greenhouse gas mitigation, climate adaptation, sustainable economics, and tool developers. A series of pilot cities will test the tool prior to C40's formal launch of this new resource.

**City of Dallas, Comprehensive Environment and Climate Action Plan.** Greenhouse Gas Mitigation Lead. AECOM is developing a sustainability plan for the City of Dallas that will demonstrate a commitment to the Paris Treaty climate goals, incorporate facets of resilience planning, and achieve other broad-based environmental goals with a sharp focus on the City's equity challenges. Mr. Lathan is leading the greenhouse gas mitigation work, including reviewing the City's base year inventory, preparing emissions forecasts, setting interim targets that chart a path to 2050 carbon neutrality, and developing and quantifying emissions reduction strategies that build upon the City's existing framework of action.

**Chicago Greenhouse Gas Analysis, City of Chicago, IL.** Technical Specialist. Working for the Office of Sustainability, AECOM prepared a GPC-compliant 2015 community-wide inventory for the City of Chicago. AECOM then compared the methodological differences in the City's 2005 and 2010 inventories to the new 2015 inventory, revised the 2005 and 2010 inventories for consistency, and reported on the City's emissions trends over time. Mr. Lathan led inventory efforts related to the stationary energy and solid waste sectors, as well as emissions forecasting and report preparation. He assisted the City in a high-level evaluation of local GHG reduction opportunities to achieve a 2025 GHG target, and is currently leading the 2017 inventory update.

**City of Long Beach, Climate Action and Adaptation Plan, Long Beach, CA.** Technical Specialist. Mr. Lathan is helping to develop a climate mitigation and adaptation plan for Long Beach. The mitigation aspect of this project involves conducting a core and consumption-based GHG inventory and forecast, setting a target, developing GHG reductions strategies, and establishing an implementation and monitoring framework. Mr. Lathan's roles include technical analysis of the energy and waste sectors in the core inventory, development of a target-setting memo that considers CA's unique legislative framework as well as science-based guidance, preparation of the consumption-based inventory following the ICLEI Community Protocol, leading development and analysis of local reduction strategies, and drafting sections of the final plan.

**1.5° Action Plan for Mexico City – Mexico City, Mexico.** Technical Specialist. AECOM was commissioned by C40 to support Mexico City in updating its climate mitigation and adaptation plan, making it consistent with the Paris Agreement goal to limit global warming to 1.5° Celsius above preindustrial levels, and to build resilience to climate vulnerabilities and risks. Mr. Lathan led analysis of two GHG reduction scenarios using the CURB carbon abatement tool developed by AECOM. One scenario considered a pathway toward the UNFCCC's Intended Nationally Determined Contribution and National Climate Change Law targets, while the other more aggressive scenario was modeled to demonstrate achievement of a 2050 net carbon neutrality target aligning with the Paris Agreement goal.

**pLAn Carbon Neutrality Analysis, Los Angeles, CA.** Technical Lead. As part of multi-year project for the Los Angeles Office of Sustainability, AECOM reviewed and revised the City's previous 1990 and 2013 inventories, prepared annual inventories for 2014-2017, and engaged in deep carbon reduction planning. Mr. Lathan assisted in a review of the City's previous inventories, transferred both into a GPC-compliant format, and developed emissions projections through 2050. Mr. Lathan contributed to the 2014-2017 annual inventories, leading efforts related to the stationary energy and solid waste sectors. He then led development of a carbon neutrality pathway assessment for 2050 using the AECOM-developed CURB tool. He also developed a technical memo outlining the additional data needs and potential sources for the City to prepare a GPC Basic+ inventory in the future, and developed a GHG Inventory Report that analyzes emissions trends in the city from 2013-2017.

**Somerville Greenhouse Gas Analysis and Carbon Neutrality Study, City of Somerville, MA.**

Assistant Project Manager, Primary Author, Technical Analyst. Mr. Lathan co-lead development of the City's community-wide and local government operations emissions inventories. He led data collection efforts for the local government operations inventory, and was primary author of the emissions inventory report summarizing both inventories. During the follow-on work, Mr. Lathan authored a carbon neutrality memo to help define the City's long-term goal and place it in the context of other leading cities. He also helped to define technology-based target pathways, and conducted expert interviews with technicians and educators in relevant fields. AECOM then provided a technical report that quantifies the GHG reduction potential of the identified carbon neutrality target pathways. In the most recent phase of work, Mr. Lathan expanded upon the previous analyses to co-develop GHG reduction strategies and implementation frameworks for incorporation in the City's Climate Action and Adaptation Plan.

**CURB GHG Abatement Tool, Bloomberg Philanthropies and C40 Cities, New York, NY.** Technical Specialist. Working for Bloomberg Philanthropy, AECOM expanded the Climate Action for Urban Sustainability tool, originally developed for the World Bank, so it can be used in cities throughout the developing world. AECOM collected key building energy, energy generation, transportation, solid waste, and wastewater parameters for hundreds of cities worldwide to enable detailed GHG emission calculations. AECOM also worked with Bloomberg Philanthropy, C40, and World Bank to provide three cities in Latin America and Africa with CURB model training and direct assistance on components of the cities' low emission planning processes. Mr. Lathan's responsibilities for this project included data collection and analysis for the model's energy generation sector and beta testing of the final tool. Mr. Lathan led a one-day CURB training during the Global Climate Action Summit in San Francisco in which he introduced the various analysis modules in CURB and guided participants through hands-on exercises, including development of a baseline inventory and emissions forecasts, target setting, context evaluation, and GHG reduction strategy development. He has also led CURB-based exercises in workshops to illustrate the CAP action quantification process.

**Silicon Valley 2.0 Multiple Climate Action Plans – Santa Clara County, CA.** Assistant Project Manager and Technical Lead. AECOM assisted the Santa Clara County Office of Sustainability in preparation of community-wide and local government operation Climate Action Plans (CAPs) for the Silicon Valley cities of Cupertino, Gilroy, Morgan Hill, Mountain View, San José, and Saratoga. AECOM updated the previous baseline emissions inventories to comply with current industry standards and calculation methodologies, and prepared long-range emissions forecasts. Mr. Lathan contributed to the baseline inventory revision calculations and demographic data collection for future year forecasts. He also led preparation of the city-specific CAP documents, including development of emissions reduction strategies, public outreach, interagency coordination, and document authorship.

**City of La Mesa, Climate Action Plan, San Diego County, CA.** Assistant Project Manager and Technical Lead. AECOM designed the City's CAP to reduce household transportation costs, take advantage of incentives for energy efficiency improvements, provide CEQA streamlining, and reduce GHG emissions consistent with state mandates. Mr. Lathan provided a technical review of the City's previously prepared 2010 inventory, and then developed emissions forecasts based on SANDAG regional growth estimates, including regional traffic model forecasts and demographic growth projections. He helped City staff define a set of GHG reduction strategies that would be locally implementable and politically feasible and assisted in organizing a community outreach event to solicit additional public input on the proposed strategies and implementation programs.