



Data Scientist

 Employees can work remotely

Full-time

State/Province: Texas

Business Group: DCS

Offered compensation will be based on location and individual qualifications. The expected range is: \$84,000.00 - \$153,000.00

Legal Entity: AECOM Technical Services Inc

Business Line: Global Program Mgmt

Work Location Model: Remote

Operating Group: Group Support

Primary Location: US - Dallas, TX - 13355 Noel Road

Company Description

Work with Us. Change the World.

At AECOM, we're delivering a better world. Whether improving your commute, keeping the lights on, providing access to clean water, or transforming skylines, our work helps people and communities thrive. We are the world's trusted infrastructure consulting firm, partnering with clients to solve the world's most complex challenges and build legacies for future generations.

There has never been a better time to be at AECOM. With accelerating infrastructure investment worldwide, our services are in great demand. We invite you to bring your bold ideas and big dreams and become part of a global team of over 50,000 planners, designers, engineers, scientists, digital innovators, program and construction managers and other professionals delivering projects that create a positive and tangible impact around the world.

We're one global team driven by our common purpose to deliver a better world. Join us.

Job Description

As a Senior Data Scientist at AECOM, you will help drive the design and implementation of our data infrastructure for the Program Management business line. This includes helping define data, data models, and data architecture for the purposes of PgM BL specific needs, as well as individual program and program team needs.

You will be working on our program management tools in partnership with internal technology teams and regions responsible for developing and delivering business solutions. Your focus will be ensuring data and dashboarding standardization, platform scalability, security, and efficient data management on an ongoing basis. Your expertise and familiarity with program management data will help internal technology teams deliver on our data strategy, supporting Enterprise Critical Pursuit/ Tier 2 program teams, driving efficiency, enabling rapid data-driven decision-making, and positioning AECOM as an industry leader in the program management space.

Responsibilities:

Data Architecture Design:

- Develop and maintain the overall PgM data architecture, including data models, schemas, and databases. This includes ad-hoc addition of data from individual clients or other sources as needed.
- Collaborate with cross-functional teams (internal technology teams, regional BL, etc.) to define data requirements for global programs.
- Partner with internal technology teams to help drive decisions on buy versus build with clearly articulated business rationale.
- Partner with internal technology teams to help drive IP vision in the program reporting space (what is our secret sauce, what should we absolutely own and protect, and why)

Data Governance and Standards:

- Contribute to data governance policies, ensuring compliance with corporate and industry regulations.
- Help define data standards, best practices, and guidelines for data management relating to Programs and the PgM GBL.
- Data lifecycle management for program data
- Familiarity with global requirements around data residency.

System/Data Integration:

- Overseeing PgM data integration and developing integration strategies/schemas across various platforms (e.g., BIM, program management tools) on a program-by-program basis.
- Ensure seamless data flow and interoperability for delivery of automated dashboarding and AI/ML support.
- Ensure design is flexible enough to account for client and country-specific regulatory and data residency requirements.

Scalability and Performance:

- Drive optimization of data storage and retrieval processes for large-scale programs.
- Address performance bottlenecks and scalability challenges.
- Ensure support for AI/ML analytics

Security and Privacy:

- Inform delivery of robust data security measures, safeguarding sensitive information in accordance with client and corporate policy.
- Collaborate with both internal and client cross-functional teams (IT, cybersecurity, etc.) to mitigate risks.

Collaboration and Training:

- Work closely with internal technology teams, data scientists, engineers, digital business leads, product managers, and program managers.
- Train program teams on data-related processes and tools.

Qualifications**Minimum Requirements:**

- BA/BS plus 8 years of experience in data analysis and architecture, preferably in the AEC industry or demonstrated equivalency of experience and/or education.
- Technical Skills: Proficiency in database design, ETL processes, and data modeling. Ability to partner closely with internal technology teams and external vendors, helping drive the data strategy vision, providing requirements, and

articulating any design tradeoffs to the business. Additional ability to parse standard/universal program data needs from bespoke program management client needs is a must.

- Industry Knowledge: Familiarity with AEC program management domain, including the end-to-end program lifecycle, including initiation, design, construction, and maintenance phases. Additional areas of familiarity desired:
 - BIM (Building Information Modeling) concepts
 - Construction, materials, and logistics
 - Regulatory compliance
 - GIS

Preferred Qualifications:

- 10 years of experience in data analysis and architecture, preferably in the AEC industry. Previous experience building robust program reporting systems for international clients is a major plus.
- The ideal candidate will also be able to provide solutions to bridge any gaps and create a seamless client experience between the standard reporting tool and the very specific client reporting needs. They will operate as a key part of the change management process, acting as an advocate for the toolset, and working directly with clients and programs to ensure benefits are defined and achieved.

Additional Information

- This position is remote, with occasional travel to meetings and program sites required.
- Relocation assistance is not available for this position
- Sponsorship for relevant country work authorization is not available for this position, now or in the future.

About AECOM

AECOM is proud to offer a comprehensive benefits program to meet the diverse needs of our employees. Depending on your employment status, AECOM benefits may include medical, dental, vision, life, AD&D, disability benefits, paid time off, leaves of absence, voluntary benefits, perks, U.S. and global well-being programs, employee assistance program, business travel insurance, service recognition awards, retirement savings plan, and employee stock purchase plan.

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, 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 and digital expertise, 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 \$14.4 billion in fiscal year 2023. See how we are delivering sustainable legacies for generations to come at [aecom.com](https://www.aecom.com) and @AECOM.

Freedom to Grow in a World of Opportunity

You will have the flexibility you need to do your best work with hybrid work options. Whether you're working from an AECOM office, remote location or at a client site, you will be working in a dynamic environment where your integrity, entrepreneurial spirit and pioneering mindset are championed.

You will help us foster a culture of equity, diversity and inclusion – a safe and respectful workplace, where we invite everyone to bring their whole selves to work using their unique talents, backgrounds and expertise to create transformational outcomes for our clients.

AECOM provides a wide array of compensation and benefits programs to meet the diverse needs of our employees and their families. We also provide a robust global well-being program. We're the world's trusted global infrastructure firm, and we're in this together – your growth and success are ours too.

Join us, and you'll get all the benefits of being a part of a global, publicly traded firm – access to industry-leading technology and thinking and transformational work with big impact and work flexibility. As an Equal Opportunity Employer, we believe in each person's potential, and we'll help you reach yours.

All your information will be kept confidential according to EEO guidelines.

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