



Job Titles: 1. 3D Rendering and Graphics Contractor
2. Graphic Design / Digital Illustration Contractor

Dates: 1. May - December 2023
2. July - December 2023

Pay: \$55 per hour

Location: Remote; preference for occasional in-person work sessions in New York City

Application deadline: To apply, please fill out the below form. Applications will be reviewed on a rolling basis starting April 3.

The [National Association of City Transportation Officials \(NACTO\)](#) is seeking two contractors, one specializing in **3D rendering** and one specializing in **graphic design/digital illustration**. These contractors will work with NACTO throughout the second half of 2023 with an intensive work period in July-October (see specific ranges below) to support the development of the third edition of NACTO's Urban Bikeway Design Guide. These contractors will work with NACTO's Visual Communications Manager to generate 3D renderings of bikeway facility types, post-process the renderings for style, and generate infographics, all of which will appear in the new guide. Both positions are remote, with a preference for candidates who can attend occasional in-person meetings in New York City. Background or interest in transportation planning and urban design is a plus.

3D Rendering and Graphics Contractor:

Overall date range: May - December 2023

Work intensity:

- Early- to mid-May: high intensity (produce Sketchup library)
- June-July: low intensity (refine library)
- Mid-July to mid-Oct: high intensity (produce street renderings and other graphics)
- Oct-Dec: low intensity (refine renderings)

Dates and deliverable quantities subject to shift.

What you'll do:

- Produce 15-25 high-quality, detailed 3D renderings of street and bikeway designs based on sketches from project team; edit renderings based on rounds of feedback from project team (See past examples [here](#) and [here](#). Style will be slightly modified for new renderings.)
- Produce a preliminary library of Sketchup objects (people, buildings, vehicles, etc) to be used in the above renderings
- Post-process Sketchup renderings for style
- Create 25-50 simple plan view or cross-section view street diagram graphics using Adobe Illustrator under visual style guidelines



Required skills/background:

- High proficiency in Sketchup, especially in creating architectural and built-environment renderings
- Excellent time management skills to prioritize tasks, meet deadlines, and communicate with team proactively
- Skill engaging on race and equity especially as it relates to visual representation
- Proficiency in Adobe Illustrator, Photoshop

Desired skills/background:

- Career/educational background or personal interest in urban planning, urban design, transportation planning, bikeway design, or related field

Graphic Design / Digital Illustration Contractor:

Overall date range: May - December 2023

Work intensity:

- Mid-July to mid-Oct: high intensity (produce infographics; post-process renderings)
- mid-Oct-Dec: low intensity (refine infographics and renderings)

Dates and deliverable quantities subject to shift.

What you'll do:

- Produce 75-150 infographics (ranging in complexity and including items like flow charts, graphs, single icons, street diagrams, etc) for the new Urban Bikeway Design Guide using Adobe Illustrator under brand/style guidelines; edit infographics based on feedback from the graphics team and project team
- Use Adobe Illustrator, Photoshop, Procreate, or other professional design/illustration software to post-process 30-60 3D street renderings under visual style guidelines. Post-processing may include applying color, adding backgrounds and textures, redrawing (tracing) certain objects, adjusting line weights to create emphasis and visual depth, removing or drawing new linework details inside objects (people's faces and clothing, landscaping details, architectural elements, etc)

Required skills/background:

- Strong professional experience in infographic design, educational design, and visual storytelling
- Experience in digital illustration and digital painting
- High proficiency in Adobe Illustrator
- High proficiency in Photoshop, Procreate, or another professional digital illustration software
- Close attention to detail
- Excellent time management skills to prioritize tasks, meet deadlines, and communicate with team proactively



Desired skills/background:

- Experience in educational illustration, perspective and environment design, character design, digital brushes and texture applications
- Educational background or personal interest in urban planning, urban design, transportation planning, bikeway design, or related field

How to Apply

Please fill out [this form](#) to apply. Email hr@nacto.org with any questions. No calls, please.

Who we are:

NACTO is a nonprofit association of 96 major North American cities and transit agencies formed to exchange transportation ideas, insights, and practices and cooperatively approach national transportation issues. Our members include cities such as Philadelphia, Atlanta, New Orleans, and Houston, and transit agencies such as LA Metro and Chicago Transit Authority. Our mission is to build cities as places for people, with safe, sustainable, accessible, and equitable transportation choices that support a strong economy and vibrant quality of life. Our staff team is passionate, outcomes-oriented, and committed to challenging the status quo in transportation and raising the bar for city streets.

About the Urban Bikeway Design Guide:

NACTO is in the process of updating its [Urban Bikeway Design Guide](#). The current guide, last updated in 2013, provides cities with state-of-the-practice solutions that can help create complete streets that are safe and enjoyable for bicyclists. The designs in this document were developed by cities for cities, since unique urban streets require innovative solutions. To create the current guide, the authors conducted an extensive worldwide literature search from design guidelines and real-life experience, working with a panel of urban bikeway planning and engineering professionals from NACTO member cities.

The update to the Urban Bikeway Design Guide will include an expanded scope to cover additional network planning and project development design guidance currently included in the Urban Bikeway Design Guide as well as two companion NACTO guides: [Designing for All Ages & Abilities](#) and [Don't Give Up at the Intersection](#).

The visual style of the updated guide will adhere to NACTO's Graphics Standards Manual and will partially reflect the styles of [NACTO's past published guides](#), while also adopting new elements to increase legibility and bring the guide up to date with contemporary graphic design trends and practices.

NACTO is committed to workplace diversity and inclusion. We are equal opportunity employers and do not discriminate in hiring or employment on the basis of race, color, religion, national origin, gender identity, marital status, sexual orientation, age, disability, veteran status, or any other characteristic protected by federal, state, or local law.