**Ford Motor Company**

**New Mobility Project Specialist**

**Location: Palo Alto, CA**

**Job Description**

The candidate will play a pivotal role in developing new mobility products and services at Ford’s Research and Innovation Center in the heart of Silicon Valley. They will be an integral part of Ford’s Mobility Research group, a varied and interdisciplinary group within Research and Advanced Engineering that is dedicated to cutting-edge research to improve transportation accessibility, mobility, and sustainability for all. The candidate will support research projects helping Ford develop and simulate new and innovative mobility solutions, including microtransit, dynamic shuttles, smart cities, and connected and automated vehicles. The position requires a combination of technical and soft skills, as well as experience with project management. Major responsibilities of this position include:

* Project management to deliver microtransit pilot projects, working directly with transit agencies and Ford subsidiaries
* Support an array of research projects as needed with data analysis and visualization, writing journal articles, invention disclosures, patents, and other IP
* Perform collaborative work with other groups internal and external to Ford, including National Labs, Universities, Cities, and Ford subsidiaries
* Support efforts to evaluate and benchmark transportation modelling and simulation software both traditional software (e.g. CUBE and VISSIM) and those more focused on new mobility
* Help implement transportation modelling and visualization software that can show how Ford mobility solutions can improve cities’ transportation systems.

**Basic Qualifications**

* M.S. in Transportation Engineering, Urban Transportation Planning, or equivalent
* 2+ years’ experience in the transportation planning or engineering field, e.g. with a government agency, consulting firm or University research lab
* Excellent knowledge of travel behavior and human factors topics such as factors influencing travel patterns, mode choice and location choice
* Experience interacting with key transportation planning stakeholders such as city planning and engineering departments, transit agencies, metropolitan planning organizations, and transportation consulting firms
* General knowledge of mobility trends and emerging mobility technologies and services

**Preferred Qualifications**

* Project management experience, including responsibility for managing a budget
* Experience with data analytics software and scripting such as python, R, Stata, Tableau, etc.
* Experience manipulating urban data sets, including location-based and Census data, for transportation modelling/analysis
* Experience in transportation planning or modeling (coursework counts). Examples include but are not limited to:
  + Discrete choice or travel behavioral modeling using R, Biogeme, or other software
  + Shared mobility modelling/simulation techniques using open source platforms such as MATSIM other agent-based tools
  + Traditional travel demand modeling (e.g. with TransCAD or CUBE) and/or activity-based modelling
* Ability to learn new software quickly and assist with evaluating and benchmarking tools
  + Examples of relevant software include: ArcGIS, PTV Vissim/Visum, Aimsun, TransModeler, CUBE, TransCAD, MATSIM, SUMO, and Ford-developed simulations, optimization models, and data architectures.
* Experience using APIs and/or contributing to open-source software via Github, especially transportation modeling software such as MATSIM, SUMO, etc.
* Ability to thrive in a fast-paced, dynamic work environment
* PhD. in Civil Engineering, Transportation Engineering, Urban Planning, Industrial & Operations Engineering, Complex Systems, Data Science, or equivalent

The distance between imagination and … creation. It can be measured in years of innovation, or in moments of brilliance. When you join the Ford team discover all the benefits, rewards and development opportunities you’d expect from a diverse global leader. You’ll become part of a team that is already leading the way, with ingenious solutions and attainable products – and it is always ready to go further.

Visa sponsorship may be available for this position.

Ford Motor Company is an equal opportunity employer committed to a culturally diverse workforce. All qualified applicants will receive consideration for employment without regard to race, religion, color, age, sex, national origin, sexual orientation, gender identity, disability status or protected veteran status.

**To apply**: Please send a resume and one-page cover letter to Tiffany Nagy, tnagy@epitec.com