Stanford University

Research Scientist – Sustainable Infrastructure Finance
Incheon, Korea (South) - Full Time

The Stanford Center at the Incheon Global Campus (SCIGC) is Stanford University's sole research entity operating in the Republic of Korea.

Purpose:

The successful candidate will conduct analyses, perform research projects, and author or co-author original research publications within the scope of the funding project and will collaborate with academics and government to deepen understanding of smart cities. This work will increase SCIGC's impact and support the development of smart city data and information systems, smart and sustainable urban systems, smart city entrepreneurship, and smart municipal finance.

Primary Responsibilities:

- Develop methods to use data from urban sources to inform infrastructure financial risk
- Interact with financial instructions and other stakeholders responsible for assessing and pricing financial risk of infrastructure subjected to climate change
- Develop methods to use data from urban sources to quantify climate change asset risk
- Organize collection and work with large, complex datasets from various sources to draw analytical insights.
- Contribute to analysis and interpretation of data to recognize irregularities and invalid results.
- Research, design, and monitor key indicators to evaluate urban system performance.
- Apply research protocols to deploy, test, validate, and refine strategies using evidence-based, data-driven methodologies.

- Apply statistical models and create reports to integrate and display data resulting from the analysis.
- Participate in the implementation of modifications and protocols in support of smart and sustainable city research.
- Author or co-author submissions to conferences, journal papers, presentations, and invention disclosures.
- Present designs, challenges, implementation details, and results during periodic reviews and meetings with managers, staff, and project teams.
- Collaborate with research staff and project teams to implement research focused on smart city systems.

These duties may be amended from time to time.

Minimum Requirements:

- M.S. in civil engineering, environmental engineering, mechanical engineering, electrical engineering, computer science, management, or a related field.
- Excellent command of the English language.
- Must be legally authorized to work in South Korea.

Desirable skills:

- Experience working in a team-based project from inception to demonstration across multiple disciplines.
- Strong passion for smart city systems and urban data challenges.
- Industrial or academic experience working in the area of smart cities or related fields.
- Experience performing literature searches, reviews, and synthesis of information.
- Experience writing scientific or review papers.

The Stanford Center at the Incheon Global Campus (SCIGC) is Stanford University's flagship research center operating in the Republic of Korea. As a top-tier, global research institution in the heart of Silicon Valley, Stanford has a long history of international collaboration through research, education, and engagement. SCIGC, located in Songdo-dong, Yeonsu-gu, Incheon, is at the center of Stanford's growing interactions with South Korea and Asia. Branching across seven schools and many research institutes, SCIGC is a Stanford-wide interdisciplinary research center initially engaging in smart city technology implementation, sustainable urban systems and wellness, innovative entrepreneurship methods and business models, and sustainable development and global economic competitiveness.

Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other characteristic protected by law.

Related Keywords: Incheon, South Korea, Sustainability, Researcher, Scientist, Smart Cities, Data analysis, Data management