Quantitative Analyst, Health Research Microsimulation

The mission of the Leonard D. Schaeffer Center for Health Policy and Economics is to measurably improve value in health through evidence based policy solutions, research excellence, transformative education, and private and public sector engagement. With its extraordinary breadth and depth of expertise, the Schaeffer Center will have a vital impact on the transformation of healthcare.

The Leonard D. Schaeffer Center for Health Policy and Economics (Schaeffer Center) is seeking a Quantitative Analyst to provide programming support on microsimulation health research projects that use large and complex healthcare databases (administrative claims data, electronic health records, survey data, etc). This is a two year, fixed term (renewable) position.

The Quantitative Analyst provides programming support on microsimulation research projects, and helps maintaining multiple and diverse databases carried by the center. Quantitative training required in econometrics, statistics, applied mathematics, or quantitative social science. SAS or Stata experience required. The programmer is an integral part of the research team and works closely with the principal investigator and a multidisciplinary research team. The key role of the programmer is to support the development of the center’s microsimulation models by adapting complex data, performing statistical modeling, and extending our microsimulation capabilities. Programmers also execute the analytical plan for the project in conjunction with graduate students. Manages large data files. Utilizes creativity and innovation to solve conceptual programming problems raised by cutting-edge research. Programmers are also part of a state-of-the-art data core at Schaeffer Center with opportunity for peer interaction and mentoring.

Required Qualifications:

- BA/BS in Statistics, quantitative social science, health economics, mathematics or related field
- Quantitative training in econometrics, statistics, applied mathematics, or quantitative social science
- 2 or more years of experience with SAS, Stata, R or similar statistical software
- Experience with longitudinal panel survey data
- Exposure to simulation techniques and methods
- Ability to work independently on complex programming
- Relevant work experience to provide strong technical knowledge of programming and analysis

Preferred Qualifications:

- MA/MS in Statistics, quantitative social science, health economics, mathematics or related field
- C++ or other object-oriented programming language
- Experience in health economics, health policy, public health, or similar discipline
- 3 or more years of experience with SAS, Stata, R or similar statistical software.
- Experience with large administrative databases, survey data, claims data, electronic health records data
- Demonstrated creativity and innovation in solving conceptual programming problems
**Required Documents:**
Cover letter

Resume/CV

**About the Sol Price School of Public Policy:**

The mission of the Price School is to improve the quality of life for people and their communities, here and abroad. We achieve this mission through education and research that promote innovative solutions to the most critical issues facing society, with a particular focus on governance, urban development, and social policy. The Price School offers Ph.D. programs in Public Policy and Management and Urban Planning; masters’ degrees in Public Administration, Public Policy, Urban Planning, Health Administration, and Real Estate Development; executive masters’ degrees; and undergraduate degrees.

**The University of Southern California is an Equal Opportunity Employer that Values Diversity.**

**Job posting and application:**
https://usccareers.usc.edu/job/los-angeles/quantitative-analyst-health-research-microsimulation/1209/8757568