Statistical Methodology Consultant

Part-time engagement opportunity for a person with expertise in statistical methodologies to develop a sound statistical basis for measuring and risk adjusting complications that occur in Maryland's hospitals. Your statistical expertise will complement and enhance an existing policy framework that is used to evaluate Maryland's hospitals' performance, and to financially penalize and reward hospitals based on their performance. Because complications are relatively rare events, it can be challenging to reliably measure performance and to have enough data to identify an appropriate "expected" value for patients of varying risks. Your role would be to design and test appropriate statistical approaches to address problems in the current policy with measuring and risk adjusting low volume events. You will work closely with policy leaders at the Maryland Hospital Association to integrate a statistical approach with the existing policy in a way that improves the measurement of complications. Your analytic design will be part of a larger set of modifications that the Maryland Hospital Association recommends to the state of Maryland (State) for adoption.

Maryland's hospitals, unlike hospitals in the rest of the country, participate in a demonstration made possible through the Affordable Care Act to test whether a change to the reimbursement structure and other incentives will result better care, lower costs and improved health. This demonstration is implemented by the State, which develops, regulates and administers policies in a role similar to that of the Centers for Medicare & Medicaid Services for hospitals in all the other states. The Maryland Hospital Association is the advocate for Maryland's hospitals, health systems, communities, and patients before legislative and regulatory bodies. As such, our role is to work with Maryland's hospitals, represent their interests, and make sure that the State's policies are fair and equitable to all hospitals.

Required skills/experience

- PhD in statistics, economics or mathematics, Masters degree with at least 5 years' experience in analyzing health care outcomes or health services research will be considered
- SAS or STATA programming experience
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Ability to explain, in plain language, the statistical design concept, including strengths and weaknesses of approaches under consideration

Desirable skills/experience

- Experience in analyzing health care outcomes or health services research
- Analysis of patient level or health care claims level data

The engagement is anticipated to require about 20 hours a week for two months. There may be a possibility to extend for several additional months.

How to apply and deadline for applications

To be considering for the Statistical Methodology Consultant position, please send your resume to CJ Neely (CJ.Neely@jhu.edu) by 5pm on Monday, April 16, 2018.

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