

I am seeking a PhD student in Biomedical Informatics to work with me and my team on a Veteran Health Administration-funded Career Development Award (5-year award). The Career Development Award study aims are as follows:

1. To develop and validate PREMMOUD, a PREdictive Model for Medication treatment for Opioid Use Disorder discontinuation
2. To adapt PREMMOUD into a clinical decision support tool to continuously monitor risk of medication treatment for opioid use disorder discontinuation and provide clinical guidelines for addressing the primary risk factors driving the PREMMOUD score.
3. To assess (a) the feasibility of conducting a large-scale randomized controlled trial to test the clinical decision support tool's effectiveness as well as (b) the clinical decision support tool's acceptability among waived providers.

The student must enroll in the PhD program within the University of Arkansas for Medical Sciences (UAMS) Department of Biomedical Informatics Program and must be a US citizen. Funding will be through the National Institute on Drug Abuse T32, which is housed in the UAMS Psychiatric Research Institute. The T32 will cover 100% of the UAMS student stipend and tuition. The T32 also provides healthcare and travel benefits.

Basic skills desired for this position include intermediate skills in Python or other statistical software (e.g., R, SAS), observational study design, and at least some exposure to management of electronic medical record data. Student will be expected to obtain a Without Compensation status with the Veterans Health Administration to be able to work with the data.

The skills to be learned in this experience include predictive modeling, secondary data analysis with electronic health record data (particularly Veteran Health Administration data, the largest integrated health system in the United States), machine learning, focus groups, pilot trials, and clinical decision support tool development.

Interested prospective students should reach out to me directly. My email is cjhayes@uams.edu.

Best,
Corey

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