

Dear all,

There is a new postdoctoral opportunity for a project working on developing models for the treatment of opioid use disorder. The postdoc will work with me and other collaborators in a well-established group at Boston University. The description of the position is pasted in below. If you have a graduating student or know someone who might be interested, please have them contact me ([lfwhite@bu.edu](mailto:lfwhite@bu.edu)) or Ben Linas ([Benjamin.linas@bmc.org](mailto:Benjamin.linas@bmc.org)). Feel free to distribute this widely!

Thanks!  
Laura

The post-doctoral fellow will be an essential member of a team of investigators who are building a compartmental simulation model of opioid use disorder and its treatment. The model will simulate the population of people with opioid use disorder in Massachusetts and it will be calibrated to state-specific estimates of disease prevalence, admissions to treatment facilities, and overdose deaths. We will then employ the model to investigate strategies for improving access to and retention on medications for opioid use disorder.

The post-doc will lead model development with the help of a computer programmer and a data analyst. A team of faculty with experience in simulation modeling will supervise the post-doctoral fellow. Model development will include Bayesian calibration approaches for fitting simulation inputs, as well data analysis both for developing Bayesian "priors" and for estimating calibration targets. The post-doc will lead working groups within the larger team, and will guide all aspects of model development. Ultimately, when the model is completed, the post-doctoral fellow will employ the model to develop the evidence base needed to formulate new policy and treatment guidelines for opioid use disorder. We anticipate the post-doctoral fellow will present model findings at national conferences and will author multiple peer-reviewed manuscripts.

Essential Responsibilities/Duties:

1. Assume administrative responsibility for a portfolio of projects that includes collaborators at multiple institutions
2. Balance multiple competing projects at the same time
3. Lead Bayesian calibration of the simulation including developing priors and calibration targets, and interpreting the posterior distribution of model inputs.
4. Work closely with computer programmer and data analyst in developing the simulation
5. Work with faculty including the team biostatistician to review progress, set agendas, and interpret findings.
6. Work with team to interpret model results to draw conclusions about public policy
7. Write and edit manuscripts at various stages of development
8. Attend and present at conferences and meetings
9. Maintain project records and manage timelines

Laura F White, PhD  
Associate Professor of Biostatistics  
Director, Biostatistics Core, TB Research Unit  
801 Massachusetts Ave, 3<sup>rd</sup> floor  
Boston MA 02118  
(617)414-2833  
[lfwhite@bu.edu](mailto:lfwhite@bu.edu)