

POSTDOCTORAL RESEARCH FELLOWSHIPS

Drug Addiction /Cognitive Neuroscience

The Neuroimaging Research Branch, National Institute on Drug Abuse (NIDA), Intramural Research Program (IRP), is recruiting several postdoctoral fellows to study the **neurobiological mechanisms of human drug abuse**. Individuals with interests and background in **cognitive and/or affective neuroscience, decision-making and neuroimaging (fMRI, EEG)** are especially encouraged to apply. Depending on project, experience in or commitment to **TMS research** is also desired.

Specific projects include:

- The development of brain-based biomarkers to better predict drug use risk, treatment relapse and outcomes
- The development of brain-based endophenotypes of therapeutic TMS response in substance users and/or healthy controls

The lab employs a variety of neuroimaging and clinical instruments, including multimodal MRI (e.g. BOLD activation, resting connectivity, DTI, MRS, quantitative morphometry), genotyping and concurrent EEG to study the mechanisms of action of abused drugs, their effects on cognitive (e.g. attention, central executive processes, response inhibition, working memory, reward, decision making, learning) and affective processes (e.g., drug craving and interactions with emotional processes), and how their (dys)function(s) may be a factor in the consequences of and predisposition to human drug addiction as well as their ability to predict treatment response.

Ideal candidates will have a Ph.D. and/or M.D., and a strong research background in cognitive neuroscience, drug abuse neurobiology and/or functional imaging. Strong quantitative skills necessary. The positions offer excellent training in all aspects of functional and anatomical MRI and drug abuse neurobiology. The lab is organized around close interactions between neuroscientists, physicists, clinicians and drug abuse experts.

Send a CV, statement of research background and interests, and arrange for 3 letters of recommendation to be sent to: Elliot A. Stein, Ph.D., Chief, Neuroimaging Research Branch, NIDA-IRP, 251 Bayview Blvd, Suite 200, Baltimore, MD 21224. Email: estein@mail.nih.gov.