



## Programmer: MRI processing (Part-time)



The Stress and Early Adversity (SEA) Laboratory at Vanderbilt University Department of Psychology and Human Development, run by Dr. Kathryn Humphreys (<http://www.vusealab.com/>) is seeking a part-time programmer to assist primarily with processing infant and adult magnetic resonance imaging (MRI) data. The location for this position is flexible: either on-site in Nashville, TN, or remote. The position is for ~20 hours/week, at an hourly rate of \$25.

The successful candidate will work primarily with Dr. Humphreys and the imaging team, including postdoctoral fellows, graduate students, and undergraduate research assistants. This individual will be responsible for supporting the development and management of MRI processing protocols and associated scripts.

### Primary responsibilities include:

- Management of imaging data storage
- Management of processing queue (on server and XNAT)
  - Develop/deploy/implement the processing queues on server and XNAT (an open-source imaging informatics software platform)
  - Oversee and document the running state of processing queues, as well as manage the resulting data
  - Support sustainable processing queue improvement (i.e., test new versions or new, more advanced neuroimaging pipelines and packages)
- Technical documentation:
  - Create and maintain technical protocols related to the imaging data storage and processing stream for each project
  - Create and maintain scripts and protocols on Github

### Required Qualifications:

- Experienced in programming with Python and Linux/Bash
- Detail-oriented with a high level of organization
- Fast learner of new technologies
- Professional, positive, and flexible attitude
- Ability to work as part of a team and independently

### Ideal Qualifications:

- Experience with MATLAB and R
- Experience with Git, containerization (Docker/Singularity), and/or XNAT
- Prior experience in a technical support capacity
- Experience with signal or image processing
- Knowledge of BIDS standards

Interested individuals should complete an application at [this link](#), including submission of a sample code for a project that you worked, a cover letter, resume/CV, and the names and email addresses of two references. If you have any further questions, please feel free to reach out to SEA lab manager, Dr. Whitney Barnett ([whitney.barnett@vanderbilt.edu](mailto:whitney.barnett@vanderbilt.edu)).