**US Environmental Protection Agency and the
Georgia Department of Economic Development**

Job 1 Description – Community Material Flow Tracking and Analysis

The candidate will develop Python code to translate community and industry material flow data – including on generation, transfer, recycling/reprocessing, and reuse – to relate them to EPA's USEEIO model to enable sustainability analysis of alternative material uses.

The work will require close technical collaboration with the research mentors and GA Tech research partner, the USEEIO modeling team and other community-based interns.

The candidate will be expected to play a leading role in the September community application development event @GA Tech to leverage this tool to serve community applications.

The candidate will be exposed to the latest in sustainable materials management modeling, make contacts at federal, state agencies, GA Tech, in industry, and become part of a dynamic modeling and research team.

Learning Goals

Learn essentials of environmentally-extended input-output modeling; Learn about material life cycles

Top Desired Skills

Python with data science and API libraries (pandas, requests); Github; Team code development in a git-environment; Strong interest in sustainability and economic development

Deliverables

Python code and documentation to capture community material generation, transfer, recycling and reuse data and link it to USEEIO