



## Software Developer Position Forest Conservation and Agriculture in the Amazon

The [Gibbs Land Use and Environment Group](#) (GLUE) at the UW-Madison seeks an exceptional software developer to join our team. The developer will contribute to a [large project](#) that aims to better understand how to reduce deforestation, protect biodiversity and mitigate climate change. The work will focus on cattle production in Brazil, but will also include research on palm oil, coffee, cattle and other commodities in Peru and Colombia.

The candidate will join a thriving and interdisciplinary [team](#) that integrates property-level and supply chain analyses, data science, econometrics, and field surveys to better understand land use change associated with commodity production. We work closely with policymakers, companies, [media](#), and environmental groups and aim to leverage our science to make change.

Our team has developed and now maintains the Brazilian Bovine dataBase (B3), a repository of data from Brazil that integrates public records of cattle movements with a national registry of spatially explicit property boundaries for cattle ranches. We use B3 to evaluate the effectiveness of the zero-deforestation agreements, a set of policies that meatpacking companies have adopted to curb deforestation in their supply chains.

In addition to research, the lab has partnered with the National Wildlife Federation (NWF) to develop [Visipec](#), a supply chain monitoring tool that provides meatpackers with reports on deforestation in their supply chains. We are looking for someone to work on the continued development and maintenance of B3 and Visipec including tasks such as improvements to entity matching, enhanced process design for metrics generation and communication, and creation of new tables that facilitate more sophisticated queries along with new features for Visipec. This work will be done alongside and under the supervision of the lead developer that currently performs these tasks.

### Qualifications

- Minimum of B.S. degree in Computer Science, Data Science, or 2 years industry experience
- Advanced skills in SQL (preferably PostgreSQL)
- Advanced skills in shell scripting and Python preferred
- Familiarity with Docker preferred
- Code portfolio/public GitHub preferred

The one-year position will begin no later than April 29, 2024 with potential renewal years (contingent on funding availability and performance). Starting salary for this full-time position is typically \$60,000 per year, plus health insurance benefits.

**For more information:** <http://www.gibbs-lab.com/recent-publications>  
Center for Sustainability and the Global Environment: <http://www.sage.wisc.edu>

To apply, please submit a cover letter detailing qualifications and interest, CV, and phone and email addresses of three references to Matt Christie ([mjchristie@wisc.edu](mailto:mjchristie@wisc.edu)). Applications will be reviewed on an ongoing basis. Application deadline is March 1, 2024 or until position is filled.