



DNDC-Application, Research and Training, LLC.

Post-doctoral Scientist Modeling Agricultural Greenhouse Gas Emissions

Work context

DNDC Applications, Research and Training (DNDC-ART) provides DNDC-cored consulting, product services and software tools to support environmental applications related to water quality, greenhouse gas mitigation and inventories, food security and impacts of climate change. Further validation and applications development of the DNDC model is a strategic goal for DNDC-ART. DNDC-ART is a new business initiated by Dr. Changsheng Li at University of New Hampshire and Dr. William Salas of Applied Geosolutions.

DNDC-ART areas of strategic development include:

- ❖ DNDC Model validation and testing
- ❖ DNDC applications and analyses
- ❖ Integration of DNDC with distributed hydrologic models for landscape scale applications.
- ❖ Technology transfer and training in using DNDC
- ❖ Development of software tools including PC- and web-based geospatial decision support systems.

Job description

DNDC-ART seeks a post-doctoral scientist to work on DNDC applications development and training. The work will focus initially on validation of DNDC for estimating N₂O and CH₄ emissions from US croplands and application of the DNDC model for estimating N₂O and CH₄ reductions in support of several NRCS Conservation Innovation Grants projects. Later, the work will include

- Training and technology Transfer of DNDC applications in developing countries.
- Development of new applications of the DNDC model for food security
- Integration of DNDC science in decision support tools

Requirements

- ✓ Doctorate in soil biogeochemistry, Earth science, or related disciplines
- ✓ Skills in simulation modeling and programming (ideally in C++)
- ✓ Knowledge in greenhouse gas emissions in AFOLU sector
- ✓ Capacity for and interest in teamwork and training
- ✓ Good verbal and written communication skills in English required
- ✓ Duration: 24 months; monthly salary: \$4500-\$6000, depending on experience. Full time Senior Research Scientist position available after post-doc.

Any questions can be addressed to wsalas@dndc-art.com and cli@dndc-art.com. Candidates should email a CV, publication list and cover letter before June 15, 2012