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R Programmer for Modeling Study of Sustainable Agriculture

Job #8127006 • Created 8/16/2023 by Jerald Byrd • Expires 9/15/2023

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Applica

Basic Information

Employment type

Part-Time

Duration

Temporary / Seasonal

Location type

Remote

Paid or unpaid

Paid

Locations

400 Dowman Drive, Atlanta, Georgia 30322, United States

Estimated pay

\$15 - 20 per hour

Job Roles

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Computer and Information Research Scientists

Job Description

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This is a part-time temporary position (15-20 hrs/week) to provide R programming assistance to the lead postdoctoral researcher on a national-scale modeling study of sustainable agriculture. Duration of the position is to start ASAP and will complete with the project deadline of December 31, 2023.

The project is already underway, and the successful candidate will be required to learn existing code and contribute modifications and new scripts to enable the successful running of several process models on a supercomputer and analysis of the results.

Duties and Responsibilities:

This position is 100% R programming. The successful candidate will have a deep skillset in the R language with an ability to learn and edit existing code quickly. In-person location in Atlanta, GA is preferred, but remote work is acceptable.

The candidate will assist the current postdoctoral researcher with code already developed for a point-scale study to convert it to run on a national scale. Three biogeochemical process models (Daycent, LandscapeDNDC, and Millennial) will be run on a supercomputer to simulate several alternative cropping management scenarios.

Possible programming assignments could include: reconciling geospatial input data of differing spatial scales, reformatting input data to the specifications of each model, streamlining existing code to reduce runtime, modifying output, and

creating/modifying graphs and other objects for data analysis in preparation for publication.

Preference will be given to candidates with a scientific background in general, and particularly to those who may also have specific knowledge and experience in agriculture, soil, climate change, and/or geospatial data.

Required skills (must be very strong):

- R
- Git

Desired but optional skills:

- Linux environment
- Parallel computing
- Daycent, LandscapeDNDC, and/or Millennial biogeochemical process models
- Geospatial data processing in R or ArcGIS

Please provide a brief cover letter, CV, and contact information for three references.

Preferences

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Graduation Date

Graduating May '24 - May '27

School Years

Sophomore, Junior, Senior, Masters, Doctorate, Postdoctoral Studies

Majors

Agriculture, Computer Science, Computer Programming, Software Design, Natural Resource Management, Soil Science

GPA

No GPA preference set

Work Authorization

US work authorization is required, but the employer is accepting OPT/CPT candidates

Company Details

Industry

Higher Education

Website

<https://www.cpd.emory.edu> (<https://www.cpd.emory.edu>)

Headquarters Location

200 Dowman Dr, Atlanta, GA 30307, USA

Type

Private

On Campus Interviews

You have no on-campus interviews scheduled for this job.

Attachments

No attachments yet

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Labels

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Notes

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Tracking Code

No tracking code added

Applicant Package Recipients

Will be listed as "Hiring Team" for Universities

Debjani Sihi

Ellen Maas
