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Programmer – R Geospatial

FOR-CAST Research & Analytics develops ecological simulation software and forecast models for government and industry to inform decisions related to land management and species at risk. We are a growing company looking to expand our team with talented, dedicated people interested in solving challenging problems for our clients.

Summary of role: Assist in the implementation of geospatial ecological simulation models, managing code used across multiple projects. Contribute to current R package development, project workflows, and the development of standardized analyses of geospatial data and model outputs.

Type: full-time (40 h/week; Mon-Fri) for 12 months with possibility of extension

Salary: \$54,000-\$63,000 annually

Location: Calgary, AB, Canada (remote work during COVID-19 pandemic)

Start date: September 1, 2022.

Job responsibilities

1. Implementation of dynamic landscape simulation models and analyses in R;
2. Enhancement, testing, optimization, and documentation of model code across multiple projects;
3. Synthesize and visualize model outputs, generate maps and figures for summary reports.

Required skills and qualifications

- Relevant Bachelor's degree (e.g., computer science, geography), or equivalent combination of education and experience (e.g., BSc in Biology/Ecology and MSc with focus on ecological modelling);
- Demonstrated expertise in geospatial analysis in R ;
- Experience with reproducible workflows, version control and management (git, GitHub);
- Excellent communication and analytical skills;
- Strong attention to details and excellent organizational skills;
- Able to work under pressure and meet deadlines;
- Ability to adapt to a changing environment and handle multiple priorities.

Preferred skills

- Experience with other programming languages (especially C++, python);
- Experience with Ubuntu Linux and comfortable working from commandline;
- Experience with R package development;
- Experience building interactive web-based applications and visualizations with R *shiny*, especially for geospatial applications;
- Experience with geospatial databases (e.g., PostGIS).

Additional requirements: background check and proof of full vaccination against COVID-19.

Apply online: <https://www.ziprecruiter.com/job/211e823c>