Job Posting

Environmental Technician / Junior Biologist / Programmer / GIS Technician

May 18, 2022

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https://github.com/NewGraphEnvironment/202205_jobdis_tech/raw/master/docs/20220501_newgraph_job_description_tech.pdf

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Company Description

At New Graph Environment, we provide innovative and practical environmental research and consulting solutions differently. We are GIS empowered open-source computer programmers, field technicians, biologists, etc. We automate tasks and build tools to plan, gather information, interpret, and tell data rich stories about ecosystem conditions, restoration opportunities and follow up monitoring throughout British Columbia. The company is small but near every one of our projects includes working relationships with regulators, First Nations, non-governmental organizations, statisticians and GIS/developer gurus. We strive for collaborative innovation with open communication and integrity - building value-added deliverables.

Much of our work is related to the restoration of aquatic ecosystems, and although constantly evolving, our interests focus on fisheries science, watershed stress indicators, iterative interactive reporting, reconciliation, GIS, statistics, riparian health, the role of beaver in watershed dynamics, education, and the incorporation of traditional knowledge/language into natural resource management.

Requirements:

- Applicants must be eligible for the "Youth in Natural Resources" program through Eco Canada ("30 or under, a Canadian citizen, permanent resident of hold refugee status in Canada").
- To protect vulnerable communities, partners and collaborators and to meet client worksite access requirements, at this time, applicants must provide proof of full COVID-19 vaccination status or medical exemption.

Schedule

- Start date: June 6.
- Full time (min 30hr/week).
- Mostly flexible but some field in June/July and lots of field from mid-August to end of October where we work long days in the bush (up to 60hr/week or so).
- Things change all the time but if we were to caution a guess - its 70% based out of your home office in the West Kootenays (Nelson preferred) and 30% based in the field. Historically fieldwork has been mostly in the Skeena, Peace and East Kootenays, completed in missions from 1 – 3 weeks long.

Key Attributes:

- Self-motivated with ability to work effectively in a team environment.
- Willingness to troubleshoot challenges related to innovative technologies/perspectives/workflows.
- Proficient reporting and the ability to generate detailed field notes.
- Maintaining flexibility and adapting to scheduling changes and overtime in field season is required.
- Available to book travel provincially to remote areas for chunks of the summer/fall. Mid-August through October is our busiest field season, so vacation time needs to be outside of this window.
- Able to meet tight deadlines and work well under pressure.
- Ownership of a personal vehicle considered an asset with a 4x4 truck preferred. Mileage paid for travel.
- Ownership of personal field gear an asset (ie. Field vest, clinometer, GPS, waders, wading boots, ipad, etc.)
- Valid Class 5 driver's license. Must be willing to have driving record checked upon request.
- Personally owned smart phone and phone plan required.
- Personal laptop computer required.
- Level 1 First Aid or greater.

Your Role:

- Planning, data entry, mapping and technical reporting from your home office. Use and development of scripts in R and other programming languages. Support and training will be provided.
- Planning for logistics and equipment. Participating in and conducting field programs in freshwater aquatic (i.e. fish and fish habitat assessments, fish salvage, water quality, benthic invertebrates) and terrestrial surveys for various types of projects.
- Assisting with identification and implementation of safety measures/documentation for field programs including COVID-19 policies and safe work procedures.
- Assisting with office-based proposal efforts, administration, background research and communications.

Education/Experience:

- Technical diploma in environmental sciences (ex. Fish and Wildlife Technician, Environmental Planning, GIS) or Degree in Biology/Environmental Science or equivalent field, or appropriate field-specific training programs.
- Experience with programming languages such as R and SQL is an asset. Eagerness to learn coding skills is a must. If you are good with formulas in Excel you are an experienced programmer and may not know it.
- Working knowledge of QGIS (geographical information system) is asset.
- 1-3 years min of related work experience would be wonderful but not required.
- Curiosity and desire to build knowledge about aquatic ecosystems and their relationship to terrestrial ecosystems, wildlife values, and non-colonial culture within BC.
- Understanding/experience of various basic survey, sampling, and data collection techniques (e.g. for ecosystems, fish and fish habitat, water quality, flow, benthic invertebrates and vegetation).
- Working knowledge and proficiency in the use of basic field navigation and survey equipment such as maps, GPS, compass, clinometer, water quality meters etc. is an asset.
- Backpack electrofishing certification an asset.
- Swift water rescue technician certification an asset.
- Canadian Aquatic Biomonitoring Network (CABIN) training an asset.
- Small Remotely Piloted Aircraft System (RPAS) Pilot Certificate an asset. Advanced operations preferred.

Compensation:

$20 – $27.50/hr plus 4% vacation pay. Dependent on experience. Averaging agreement – Due to the common scenario of long drives to field sites, overtime only after 40hrs/week (time and a half) and after 12hrs/day (double time). An example is that if we work 4 @ 10hr days in the field one week there is no overtime. However, if we work a 5th day for 11hrs all of the 5th day's 11 hours are either paid out at time and a half or banked at 1.5hrs/hr for future paid time off.

To Apply:

Send cover letter and resumé to: info@newgraphenvironment.com. Please put "Job Application - <your_name_here>" within the subject line of the email. Applicant review will begin immediately and continue until filled. Thank you! Stoked to meet you.

Or… If you can pull it:

1.   clone the repo at https://github.com/NewGraphEnvironment/202205_jobdis_tech
2.   fork the repo and name the new fork after yourself somehow
3.   upload your cover letter and resume to the `data/ninja_applicants/` file in your fork
4.   make a pull request

Happy with Git is an exceptional resource for getting going with Git. https://happygitwithr.com/git-remotes.html