



Vacancy: Scientific Programmer (full-time)
Location: Bodeker Scientific Offices in Alexandra, New Zealand
Term: 2-year fixed-term (with an expectation of extension)
Start date: 1 February 2019
Remuneration: NZ\$70,000-90,000/year depending on experience

About Us:

Bodeker Scientific is a research company with expertise in atmospheric and climate research. The company conducts original scientific research through contracts held with both national funding agencies and international organisations. The company operates as a federation of largely independent researchers who collaboratively work on shared contracts under a commonly agreed company constitution. We focus on conducting high quality research within the time and financial constraints imposed by our research contracts. To achieve this goal, decision making in the company is participatory with an emphasis on personal responsibility.

About the Role:

We seek an enthusiastic and energetic scientific programmer, with an infinite capacity to not know what can't be done, who is ready and willing to work in an agile and innovative research environment. The successful applicant will support our team of scientists in writing code for processing and analysing large data sets (including satellite observations), running climate models on site and remotely, and advising to the team on software architectures to maximize data processing efficiencies.

Applicants are required to have a relevant qualification e.g. Bachelor of Computer Science degree, or similar, and/or a proven track record of scientific programming. We seek applicants with a strong mix of the following skills/expertise:

Essential Skills:

- At least 3 years of experience in Python programming, preferably in a research environment.
- Demonstrable experience in other programming languages such as C++, Delphi/Pascal, Matlab or IDL.
- A demonstrated ability to think laterally. The research that we undertake is innovative and requires a high degree of creativity.
- Fluent in spoken and written English. Ability to clearly document procedures, processes and work performed.
- Excellent organization skills, i.e. able to juggle a number of tasks with varying priorities.
- A rich tool box of data analysis techniques and methodologies.
- Ability to work collaboratively in a team.

Preferred Skills:

- Knowledge of, and experience in, using cloud-based high-performance computer facility (HPCF) services such as AWS.
- Knowledge of, and experience in, machine learning.
- Experience in setup, configuration and operation of climate and weather forecasting models.

While the term of employment is currently fixed at 2 years, the expectation is that, depending on continued funding, the term of employment will be extended.

Bodeker Scientific is located in Alexandra, New Zealand, and the person accepting this position will be required to work full-time from Alexandra. Occasional travel to meet with clients may be required.

Alexandra is known for its outdoor lifestyle which provides excellent opportunities for mountain biking, kayaking, hiking, cross-country skiing in winter, rock climbing etc. Alexandra has a population of approximately 5,400. It is in a central location, with easy access to popular locations such as Queenstown and Wanaka, and to the South Island's second largest city, Dunedin.

Applications must be emailed to Nicky Brookes (nicky@bodekerscientific.com) by the deadline of **19 December 2018**. Please provide:

- A covering letter
- A CV, which must include:
 - Your strengths relating to the essential and preferred skills listed above.
 - The names of at least three referees.

For further information please email Nicky Brookes (nicky@bodekerscientific.com).