

Senior Software Engineer

The [Conservation Biology Institute](#) (CBI) is a non-profit organization of scientists, GIS analysts, spatial modellers, and software engineers. Our software development team works closely with scientists and stakeholders to build software that helps them better understand and communicate their data, and make scientifically-informed decisions. Our flagship, science-based environmental data platform [Data Basin](#) engages thousands of users in finding, sharing, visualizing, and collaborating around spatial data.

We're currently seeking experienced software engineers to join our team and help us develop Data Basin and other web-based tools.

Responsibilities

Our small team of software engineers works on a variety of projects. Some of us like to specialize, or “dive deep” into areas of expertise, while others are software generalists, and work across the full stack.

We rely on our senior engineers to be self-driven, exercise leadership where needed, make and execute plans, mentor others, and work effectively both alone, and as part of (or in leading) a team of developers. We value people who are always on the lookout for ways for us to improve as a team: from more efficient processes, to adopting new technologies.

In addition to writing code, these are some of the responsibilities of our senior engineers:

- Build pragmatic, robust, and extensible software solutions based on software requirements from internal and external project constituents.
- Evaluate and anticipate feasibility and long-term impacts of planned software development activities
- Work proactively with the software team, and with project and organization leaders to assess and reduce gaps in technical skills, software components, and infrastructure.
- Collaborate closely with project and software team members as well as project constituents to iteratively develop and refine software solutions

Skills

We use the following skills constantly in our work. More than any specific skill, we value an ability to learn quickly and to be productive.

- Be able to quickly learn, apply, master, and teach other team members technical concepts and processes, especially programming languages, agile software development processes, and technical communication
- Apply, adapt, and improve geospatial concepts, including geospatial analysis, data representations, data transformation, and geospatial algorithms

- Have a habit of documenting code, designs, and ideas, and writing comprehensive tests
- Be able to perform tasks independently, with particular attention to scope and timelines
- Effectively communicate technical concepts to a variety of audiences
- Be productive in several programming languages (e.g., Python, HTML, CSS, Javascript, C, C++, SQL, Golang)

Required Experience

- At least five years of applied experience in software engineering
- Demonstrated experience with multiple programming languages
- Demonstrated experience quickly learning and becoming productive with new programming languages, technologies, and paradigms.
- Demonstrated experience building multi-tiered web applications.
- A Bachelor's Degree of Science, or similar experience and/or training

Bonus Experience

- Significant experience building software using Python, Django, React, or Golang.
- Experience building applications using GIS or mapping technology, such as Mapbox, Leaflet, PostGIS, and GDAL.

Salary and Benefits

Salary is dependent upon experience. Benefits include:

- Medical, dental, vision, life, and disability insurance
- Paid vacation, holiday, and sick days
- Employer matched Simple IRA retirement plan
- Flexible work schedules
- An opportunity to do work that matters with passionate and talented people

Application Process

Want to join the team? Please email your résumé and cover letter to Pam Frost (pfrost@consbio.org) and let us know:

- Why you are interested in developing software solutions for conservation problems.
- Your past experience, especially as it relates to problem solving using software, web application development, and data processing.
- Examples of your work: GitHub profile, web applications you've developed, etc

This position is located in **Corvallis, OR**. However, we will consider remote positions for exceptional candidates with a demonstrated ability to communicate effectively in a remote setting. Candidates must be able to work legally in the United States.