

## Full Stack Engineer - Vermont Center for Ecostudies - Information for Applicants

The Vermont Center for Ecostudies (VCE) seeks a full stack engineer who is versatile in both front and back-end software development and is enthusiastic about tackling new technological challenges within the domain of conservation biology and biodiversity. Responsibilities of this position include developing and maintaining a full-stack web application for the Vermont Atlas of Life, which will serve as a central data center for biodiversity data within the state of Vermont. The successful candidate should be comfortable working independently and be able to learn new technologies and apply these skills to the projects at hand. This is an annual term appointment with the possibility of extension dependent on performance and available funding.

Position: Full stack engineer

Hours: Full time - we are also able to offer flexible working hours for this position.

Closing date: June 15, 2018

Supervisor: Director of the Vermont Atlas of Life

### Key Responsibilities:

- Development of the Vermont Atlas of Life (VAL) infrastructure – based on the Atlas of Living Australia's open source software (<https://living-atlases.gbif.org/>).
- Help with the development of e-Butterfly (<http://www.e-butterfly.org>).
- Providing guidance and advice to the science team regarding technical aspects of VAL and other VCE projects as needed.
- Develop solutions to delivery problems

### Skills & Requirements:

- Self-motivated, fast learner, detail-oriented
- Ability to effectively communicate with a wide range of people from novice to technical experts.
- Passion for creating robust and scalable web applications
- Experience designing and developing RESTful backend services with relational database engines (SQL)
- Familiarity building dynamic JavaScript-based web applications
- Experience developing applications deployed in the cloud (Amazon Web Services, Google Cloud, etc.)
- Familiarity with Groovy and Java Web Development
- Experience with data processing in a scripting language like Python, R, Ruby, and/or Perl
- Web standards and protocols including CSS and Javascript
- Strong working knowledge of Linux and cloud service environments
- Grails and/or Java programming and documentation

### Other Desirable Experience:

- Experience with NoSQL databases
- working with Geospatial projects

- Biodiversity informatics knowledge
- Full software development life-cycle including organising, planning, liaison with stakeholders, development, testing, release and maintenance of projects.

### **About VCE and the Region**

At the Vermont Center for Ecostudies (VCE, [www.vtecostudies.org](http://www.vtecostudies.org)), we are a team of passionate, dedicated, and inspired staff. VCE advances wildlife conservation with the combined force of scientific research and citizen engagement. Our biologists study birds, insects, amphibians, and other wildlife from Canada to South America. A legion of volunteer citizen naturalists enhances our work. What we at VCE discover about wildlife and conservation we share with scientists, policy makers, conservation practitioners, and the general public. We publish research in peer-reviewed scientific literature. Our project reports help inform public policy, and our growing body of knowledge about biodiversity is a free public resource for anyone who seeks to discover and enjoy wildlife – from school children to retirees.

VCE is located in Norwich, Vermont, among a recreational wonderland of rivers, lakes, and mountains. The Appalachian Trail and the Connecticut River both pass within a mile of our office. Major ski areas are within an easy drive, and mountain biking and hiking trails are just out the back door. Vermont is known for its dynamic local food and farm industry and craft breweries. Dartmouth College is one mile away, just across the river in Hanover, NH, and offers the amenities of an Ivy League institution to the small towns in this area. Working at VCE affords one the luxury of a somewhat flexible work schedule and plenty of vacation time to enjoy all that the region has to offer.