

Application Deadline: Thu, April 30,

## DEPARTMENT OF FOREST & CONSERVATION SCIENCES

### Job Posting: Teaching Assistants / Markers

Period: Term 1 (September 1, 2015 – December 31, 2015)

Course No. **FRST 200**

Instructor: **Robert Guy**

Course Name: **Forest Plant Biology I**

Total No. Required: GTA 2.0 UTA         

**Required Qualifications:** Must be skilled in tree and plant identification, particularly angiosperm families; working knowledge of plant morphology and physiology.

**Description of General Nature of Duties:** Lab set-up, take-down; photocopying handouts; assisting students in lab (especially with tree and plant identification); marking lab reports and herbarium assignments; supervising open lab times for studying prior to exams; collecting specimens from the field.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

Basically 6 hours of contact time per week plus 6 hours of prep/marketing per 1.0 GTA

Course No. **FRST 201**

Instructor: **Suzanne Simard**

Course Name: **Forest Ecology**

Total No. Required: GTA 1.5 UTA         

**Required Qualifications:** Must be a graduate student in Faculty of Forestry. Must have an excellent understanding of local plant taxonomy, forest dynamics and structure, the biogeoclimatic ecosystem classification system, and basic soils. Must be familiar with BC coastal and interior ecosystems.

**Description of General Nature of Duties:** Provide assistance with all field labs, including some full-day labs and two weekend field trips. Provide assistance with all tutorials and indoor labs. Assist students with plant identification on evenings and weekends before lab exams. Provide some assistance with supervising and marking exams.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

Course No. **FRST 303**

Instructor: **Christopher Chanway**

Course Name: **Principles of Forest Science**

Total No. Required: GTA 0.5 UTA         

**Required Qualifications:** Forest Science Major

**Description of General Nature of Duties:** Assist in marking and lecturing.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 6 (for 16 weeks)

**Course No. FRST 305**

**Instructor: Steve Mitchell**

**Course Name: Silviculture I**

**Total No. Required:**    GTA        1.5        UTA

**Required Qualifications:**

- Completion of undergraduate level silviculture courses with high grade.
- Field experience in ecological assessment and forest measurements.
- Interest in teaching.
- Capable of working well with undergraduates.
- Good communication skills.
- Reliable.
- Class 4 (professional) driver's license to drive 15 passenger vans.
- Willingness to travel out of town several times during the term, including weekends.

**Description of General Nature of Duties:**

- Lecture and lab preparation.
- Photocopying as needed.
- Assistance with inside lab exercises.
- Supervision of student field exercises.
- Grading lab reports.

**Hours Allotted to Each Component of Job Duties:**    Hours of Work Per Week:        6        (for 16 weeks)

**Course No. FRST 307**

**Instructor: Allan Carroll / Richard Hamelin**

**Course Name: Biotic Disturbances**

**Total No. Required:**    GTA        0.5        UTA

**Required Qualifications:** Should be a graduate student in the Faculty of Forestry. Must have solid knowledge of forest biotic stresses, either in entomology or pathology. Must be familiar with disease and insect taxonomy, diagnostic, and forest pest dynamics.

**Description of General Nature of Duties:** Assistance with field labs and with indoor labs. Provide assistance with tutorials, preparation of material, and with student lab assignments. Provide some assistance with marking of assignments and exams.

**Hours Allotted to Each Component of Job Duties:**    Hours of Work Per Week:        6        (for 16 weeks)

**Course No. FRST 320**

**Instructor: Lori Daniels**

**Course Name: Biotic Disturbances Fire & Climate**    **Total No. Required:**    GTA    0.5    UTA

**Required Qualifications:**

- Completion of climate, ecology and natural disturbance courses with high grade.
- Field experience in ecological assessment and/or fire ecology and management.
- Interest in teaching.
- Capable of working well with undergraduates.
- Good communication skills.
- Reliable and self-motivated.

**Description of General Nature of Duties:**

- Lab preparation and teaching (2 sections of c. 30 students each).
- Photocopying of lab materials and maintain lab reference binders.
- Assistance with lab assignments during lab sections and office hours.
- Co-supervision of student field exercises.
- Grading lab reports and exams.

**Hours Allotted to Each Component of Job Duties:**    Hours of Work Per Week:    12    (for 16 weeks)

**Course No. FRST 351**

**Instructor: Steve Mitchell**

**Course Name: Interior Field School (Fall Camp)**    **Total No. Required:**    GTA    1    UTA

**Required Qualifications:**

- Completion of undergraduate level silviculture/ecology/measurements courses with high grade.
- Field experience in forestry/ecology.
- Interest in teaching.
- Capable of working well with undergraduates.
- Good communication skills.
- Reliable.
- Class 4 (professional) driver's license to drive 15 passenger vans is required.
- Willingness to stay in a remote camp for 1 week in late August.

**Description of General Nature of Duties:**

- Organization of transport and teaching materials prior to camp.
- Photocopying as needed.
- Assistance with field exercises while at camp.
- Supervision of field notebook completion and skills tests while at camp.
- Grading lab reports on completion of camp.

Note: This is a 1 week compressed, residential field-course with preparation time in advance and marking and wrap-up activities after camp.

**Hours Allotted to Each Component of Job Duties:**    Hours of Work Per Week:    64    (for 3 weeks)

**Course No.** FRST 395

**Instructor:** John Richardson

**Course Name:** Forest Wildlife Biology & Management **Total No. Required:** GTA 1 UTA

**Required Qualifications:** Understanding of the principles of animal ecology and population dynamics. Knowledge of the biology and identification of the terrestrial vertebrates of BC is especially valuable. The ability to clearly explain the methods used in population estimation and demographic analysis is necessary.

**Description of General Nature of Duties:** Assistance with demonstration of laboratory exercises involving identification (and form and function) of the major groups of terrestrial vertebrates in BC, mark-recapture estimations, and demographic modelling. Marking of laboratory assignments. Assistance with marking of mid-term and final examinations.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

**Course No.** FRST 544

**Instructor:** Susan B. Watts

**Course Name:** Technical Communication Skills I **Total No. Required:** GTA 0.75 UTA

**Required Qualifications:** Good English writing and communication skills in order to grade essay assignments. Previous experience in this course preferred – preference will be given to a student who has taken and done well in the course, and has experience in TAing the course, if such a student is available.

**Description of General Nature of Duties:** Grading of student papers and providing detailed feedback to students on their communication skills and how to assess the skills of others.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 9 (for 16 weeks)

**Course No.** FRST 547

**Instructor:** Susan B. Watts

**Course Name:** Forestry in British Columbia; FRST 449C Section 103 **Total No. Required:** GTA 1 UTA

**Required Qualifications:** Knowledge of BC forestry and forests. Good organizational skills. Good English skills in order to grade essays and assignments. Previous experience in this course preferred – preference will be given to a student who has taken and done well in the course, and has experience in TAing the course, if such a student is available.

**Description of General Nature of Duties:** Preparation of course handouts, maintaining students' email lists, organizing transportation for field trips, organizing accommodation and meals for field trips, grading and giving written feedback to students on their assignments, maintaining record of grades, accompanying field trips. Providing general support as requested by the instructor.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

**Course No.** CONS 101

**Instructor:** Allan Carroll

**Course Name:** Introduction to Conservation

**Total No. Required:** GTA 1 UTA

**Required Qualifications:** Good background in Conservation Biology. Strong research design, mentoring and communication skills. Good field ecology and interpretation skills especially helpful.

**Description of General Nature of Duties:** GTA leads students on several optional field trips to encourage small group discussion and exploration of a wide range of topics in natural history and conservation biology. Student delivers a guest lecture on an area of conservation they are familiar with, often focusing on their own research. GTS does preliminary marking of assignments and quizzes. GTA reads course material, attends lecture and leads several independent field trips of 2-8 hrs. duration.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

**Course No.** CONS 451

**Instructor:** Suzie Lavallee

**Course Name:** Integrated Field School

**Total No. Required:** GTA 3 UTA

**Required Qualifications:** CONS 451 is a 15-credit undergraduate course in the Natural Resources Conservation Program. The course consists of three modules, each approximately four weeks long. Modules will focus on alpine, grassland, and aquatic ecosystems in British Columbia. Each module will require 2 to 4 half-time GTA's. TAs will be hired based on their academic qualifications and **field experience** related to one of the ecosystems.

Specific qualifications for each module are as follows:

**Alpine Module:** alpine/subalpine plant species identification, or knowledge of land use planning and GIS.

**Grassland Module:** specialization in one of the following areas of grasslands research: avian ecology, plant identification, or fire ecology

**Aquatic Module:** fish identification skills, mark-recapture techniques and statistical analysis skills, amphibian identification and inventory skills, experience with fish habitat assessment.

**Description of General Nature of Duties:** Each module TA will be required to participate in a week-long fieldtrip. During fieldtrips TAs will lead field activities, assist with field exams, and supervise students at field camps. On campus, TAs will assist in identification and statistics workshops, grade assignments and provide feedback to students on deliverables.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 24 (for 4 weeks)

The number of hours allotted for a half-time TA appointment will be compressed into a one-month period (equivalent to the length of one module). Exact dates for each module and TA duties will be determined in August, but follow this general timeline: alpine module (September – field trip in second week), grasslands module (October – field trip either before or immediately after Thanksgiving), and aquatic module (November – field trip in late October / early November).

\*\*\* End of Term 1 Posting \*\*\*

# DEPARTMENT OF FOREST & CONSERVATION SCIENCES

**Job Posting: Teaching Assistants / Markers**  
**Period: Term 2 (January 1, 2016 – April 30, 2016)**

<b>Course No. FRST 210</b>	<b>Instructor: Sally Aitken</b>
<b>Course Name: Forest Plant Biology II</b>	<b>Total No. Required:</b> GTA <u>1.5</u> UTA    _____
<b>Required Qualifications:</b> Should be skilled in tree and plant identification, particularly gymnosperms and other non-flowering plants; basic plant morphology.	
<b>Description of General Nature of Duties:</b> Lab set-up, take-down; photocopying handouts; assisting students in lab (especially with tree and plant identification); marking lab reports and herbarium assignments; supervising open lab times for studying prior to exams; collecting specimens from the field.	
<b>Hours Allotted to Each Component of Job Duties:</b>	Hours of Work Per Week: <u>12</u> (for 16 weeks)
Basically 6 hours of contact time per week plus 6 hours of prep/marketing per 1.0 GTA	

<b>Course No. FRST 211</b>	<b>Instructor: TBA</b>
<b>Course Name: Forest Classification and Silvics</b>	<b>Total No. Required:</b> GTA <u>2.0</u> UTA    _____
<b>Required Qualifications:</b> . Must be a graduate student in Faculty of Forestry who has an excellent understanding of local plant taxonomy, the biogeoclimatic ecosystem classification system, silvics, soils and/or climatology. Must be familiar with BC ecosystems and tree species and interested in the impacts of global environmental change on forests.	
<b>Description of General Nature of Duties:</b>	
<ul style="list-style-type: none"><li>• Lab preparation and teaching (4 x 2-hour sections of c. 30-35 students each).</li><li>• Co-supervision of student field and lab exercise including: presentation of background materials, demonstration of field and lab analytical methods, advice on written lab assignments and evaluation of student powerpoint presentations.</li><li>• Co-supervision of a one-day field trip (in lieu of the last lab).</li><li>• Co-supervision of exams; grading lab reports and exams, including entering grades in spreadsheets.</li></ul>	
<b>Hours Allotted to Each Component of Job Duties:</b>	Hours of Work Per Week: <u>12</u> (for 16 weeks)

<b>Course No.</b> <b>FRST 302</b>	<b>Instructor:</b> <b>Yousry El-Kassaby</b>
<b>Course Name:</b> <b>Forest Genetics</b>	<b>Total No. Required:</b> GTA <u>  2  </u> UTA <u>      </u>
<b>Required Qualifications:</b> Graduate studies in forest genetics.	
<b>Description of General Nature of Duties:</b> Marking homework, 6 mid-terms and addressing questions for close to 150 students.	
<b>Hours Allotted to Each Component of Job Duties:</b> Hours of Work Per Week: <u>  12  </u> (for 16 weeks)	

<b>Course No.</b> <b>FRST 386</b>	<b>Instructor:</b> <b>John Richardson / Scott Hinch</b>
<b>Course Name:</b> <b>Aquatic Ecosystems &amp; Fish in Forested Watersheds</b>	<b>Total No. Required:</b> GTA <u>  1  </u> UTA <u>      </u>
<b>Required Qualifications:</b> Background in aquatic ecology preferably with experience in fish ecology, life history, taxonomy.	
<b>Description of General Nature of Duties:</b> Leading laboratory discussions on fish life history and general ecology; teaching fish taxonomy and identification, leading field tours; marking exams.	
<b>Hours Allotted to Each Component of Job Duties:</b> Hours of Work Per Week: <u>  12  </u> (for 16 weeks)	

<b>Course No.</b> <b>FRST 399</b>	<b>Instructor:</b> <b>Tom Sullivan</b>
<b>Course Name:</b> <b>Research Methods</b>	<b>Total No. Required:</b> GTA <u>  0.25  </u> UTA <u>      </u>
<b>Required Qualifications:</b> Some knowledge of scientific research and forest ecology. Ability to converse effectively with undergraduate students.	
<b>Description of General Nature of Duties:</b> Assist with technical details of weekly class presentation and discussions. Some grading of reports and papers. Some tutorials with undergraduates.	
<b>Hours Allotted to Each Component of Job Duties:</b> Hours of Work Per Week: <u>  3  </u> (for 16 weeks)	

<b>Course No.</b> <b>FRST 444 / AGRO 444</b>	<b>Instructor:</b> <b>Tom Sullivan</b>
<b>Course Name:</b> <b>AgroForestry</b>	<b>Total No. Required:</b> GTA <u>  0.75  </u> UTA <u>      </u>
<b>Required Qualifications:</b> Knowledge of plant species identification and plant/forest ecology. Able to handle audio-visual requirements for a variety of presentation formats.	
<b>Description of General Nature of Duties:</b> Assist with technical details of weekly class presentation and discussions. Assist with field trips to collect class datasets; compile data summaries. Organize details of guest speaker presentations.	
<b>Hours Allotted to Each Component of Job Duties:</b> Hours of Work Per Week: <u>  6  </u> (for 16 weeks)	

**Course No. FRST 495**

**Instructor: TBA**

**Course Name: Biological Diversity & Forest Management** **Total No. Required:** GTA 0.5 UTA         

**Required Qualifications:** Background in quantitative Conservation Biology, population models, statistical analysis of multivariate data (logistic and linear regression for habitat mapping), and basic GIS skills. Strong research design and communication skills are important.

**Description of General Nature of Duties:** GTA mentors students in individual projects and labs, and contributed substantially to marking of assignments and quizzes, and may deliver 1-2 lectures on topics they have special expertise in. GTA reads course material, attends lecture and lab and develops study questions weekly to prepare students for lab assignments and exams.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 6 (for 16 weeks)

**Course No. FRST 544**

**Instructor: Susan B. Watts**

**Course Name: Technical Communication Skills I** **Total No. Required:** GTA 0.5 UTA         

**Required Qualifications:** Good English writing and communication skills in order to grade essay assignments. Previous experience in this course preferred – preference will be given to a student who has taken and done well in the course, and has experience in TAing the course, if such a student is available.

**Description of General Nature of Duties:** Grading of student papers and providing detailed feedback to students on their communication skills and how to assess the skills of others.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 6 (for 16 weeks)

**Course No. FRST 545**

**Instructor: Susan B. Watts**

**Course Name: Technical Communication Skills II**  
**Scientific Writing** **Total No. Required:** GTA 0.75 UTA         

**Required Qualifications:** Previous experience in scientific writing is essential – preference will be given to a student who has taken and done well in the course, or has equivalent experience/qualifications. Must be able to communicate well with peers by way of written and oral feedback on student assignments.

**Description of General Nature of Duties:** Grading class assignments and providing a high level of written feedback on course assignments. Availability to tutor students as required and within the time available. Maintaining record of grades. Providing general support as requested by the instructor.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 9 (for 16 weeks)



**Course No. FRST 546**

**Instructor: Tom Sullivan**

**Course Name: Research Methods**

**Total No. Required:** GTA 0.25 UTA           

**Required Qualifications:** Some knowledge of scientific research and forest ecology. Ability to converse effectively with graduate students.

**Description of General Nature of Duties:** Assist with technical details of weekly class presentation and discussions. Some grading of reports and papers. Assist with audio-visual equipment.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 3 (for 16 weeks)

**Course No. CONS 330**

**Instructor: Suzie Lavallee**

**Course Name: Conservation Science & Sustainability**

**Total No. Required:** GTA 1.5 UTA           

**Required Qualifications:** Strong understanding of conservation ecology and experimental design, with skills in Excel data sheet management and basic statistical analysis. Prior teaching experience with student-led experiments an asset.

**Description of General Nature of Duties:** Teaching and leadership for one of four tutorial sections per week, including workshops on scientific writing, computer and numeracy skills, and experimental design. Marking of student assignments and final scientific project papers, as well as midterm and final exams. GTA position will be split into 0.5 increments, with one 0.5 GTA per tutorial.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

1 hour per week: instructor's meeting

2 hours per week: tutorial contact time

2 – 3 hours per week: marking and grades administration

**Course No. CONS 452**

**Instructor: Sarah Gergel / Jeanine Rhemtulla**

**Course Name: Capstone Course in Global Perspectives**

**Total No. Required:** GTA 1 UTA         

**Required Qualifications:** Background in sustainable resource management and landscape conservation. Interest in global issues, sustainable development and/or urban sustainability is helpful. Excellent GIS skills, proficiency in using remote sensing imagery, and solid communication skills are required.

**Description of General Nature of Duties:** GTA assists instructor in maintaining course website and delivering and developing GIS tutorials. Assists with instruction of GIS tutorials, mentors students on their country case-study projects. Does preliminary marking of assignments and may deliver 1-2 seminars on topics for which they have special expertise. GTA reads course material, attends lecture and lab and participates in class discussions. Out of class work with students on Geomatics projects is required.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 12 (for 16 weeks)

4 hours/week: contact time in class and tutorials

3 hours/week: course preparation

2 hours/week: marking assignments

3 hours/week: mentoring

**Course No. CONS 486**

**Instructor: Scott Hinch**

**Course Name: Fish Conservation and Management**

**Total No. Required:** GTA 0.5 UTA         

**Required Qualifications:** Background in aquatic ecology preferably with experience in fish ecology or management.

**Description of General Nature of Duties:** Leading laboratory discussions and overseeing/grading student led seminars; marking exams and term papers.

**Hours Allotted to Each Component of Job Duties:** Hours of Work Per Week: 6 (for 16 weeks)

**\*\*\* End of Term 2 Posting \*\*\***