DEPARTMENT OF FOREST & CONSERVATION SCIENCES

Job Posting: Teaching Assistants / Markers

Period: Term 1 (September 1, 2013 – December 31, 2013)

Course No.: FRST 200

Instructor: Robert Guy

Course Name: Forest Plant Biology I

Total No. Required: GTA 1.5 UTA ___

Required Qualifications:

Should be skilled in tree and plant identification, particularly angiosperms; basic plant morphology.

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/marking 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 1  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) drivers 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 Alloted 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 Alloted to Each Component of Job Duties:  Hours of work per week: 6 (for 16 weeks)

------------------------------------------------------
Course No: FRST 320
Instructor: Steve Mitchell/Lori Daniels

Course Name: Biotic Disturbances: Fire and Climate
Total No. Required: GTA 1.0 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) drivers 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 and Management

Total No. Required: GTA 1 UTA 1

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: Forestry 544 – 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 547 - 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. GTA 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 0.5

**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. This year, the modules will focus on alpine, grassland, and aquatic ecosystems in British Columbia. Each module will require 2 to 4 half-time GTA’s. TA’s 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:** excellent alpine/subalpine plant species identification, knowledge of land use planning, and GIS
- **Grassland Module:** excellent grassland plant species identification, plant taxonomy skills in general, grassland ecology, inventory techniques, good understanding of statistical analysis
- **Aquatic Module:** excellent fish identification skills, mark-recapture techniques and statistical analysis skills, amphibian identification and inventory skills, excellent knowledge and direct experience with fish habitat assessment.

Persons with qualifications that span more than one module may be hired as a full-time TA.

**Description of General Nature of Duties:**

Each module TA will be required to participate in a week-long fieldtrip. During fieldtrips TA’s will lead field activities, assist with field exams, and supervise students at field camps. On campus TA’s will grade assignments and help mark exams.

**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). Approximate dates for each module are: Alpine module Sept 1 – Sept 30, Grassland: Oct 1 – Oct 31, Aquatic: Nov 1 – Nov 31 (field trip for this module is Oct 24-30).

*** End of Term 1 Posting ***

DEPARTMENT OF FOREST & CONSERVATION SCIENCES

Job Posting: Teaching Assistants / Markers
Period: Term 2 (January 1, 2014 – April 30, 2014)

Course No.: FRST 210
Instructor: Sally Aitken
Course Name: Forest Plant Biology II
Total No. Required: GTA 1.5 UTA _____

Required Qualifications:
Should be skilled in tree and plant identification, particularly gymnosperms and other non-flowering plants; basic plant morphology.

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/marking per 1.0 GTA.

Course No.: FRST 211
Instructor: Lori Daniels
Course Name: Forest Classification and Silvics
Total No. Required: GTA 1.5 UTA _____

Required Qualifications:
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.

Description of General Nature of Duties:
- Lab preparation and teaching (4 x 2-hour sections of c. 30-35 students each).
- 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.
- Co-supervision of a one-day field trip (in lieu of the last lab).
- Co-supervision of exams; grading lab reports and exams, including entering grades in spreadsheets.

Hours Allotted to Each Component of Job Duties: Hours of work per week: 12 (for 16 weeks)

Course No.: FRST 302
Instructor: Yousry El-Kassaby
Course Name: Forest Genetics
Total No. Required: GTA 2 UTA _____

Required Qualifications:
Graduate studies in forest genetics

Description of General Nature of Duties:
Marking homeworks, 6 mid-terms and addressing questions for close to 150 students

Hours Allotted to Each Component of Job Duties: Hours of work per week: 12 (for 16 weeks)
**Course No.: FRST 386**  
**Instructor:** Scott Hinch / John Richardson

**Course Name:** Aquatic ecosystems and fish in forested watersheds  
**Total No. Required:** GTA 1  
**UTA**

**Required Qualifications:**  
Background in aquatic ecology preferably with experience in fish ecology, life history, taxonomy.

**Description of General Nature of Duties:**  
Leading laboratory discussions on fish life history and general ecology; teaching fish taxonomy and identification, leading field tours; marking exams.

**Hours Alloted to Each Component of Job Duties:**  
Hours of work per week: 12 (for 16 weeks)

---

**Course No.: FRST 399**  
**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 undergraduate students.

**Description of General Nature of Duties:**  
Assist with technical details of weekly class presentation and discussions. Some grading of reports and papers. Some tutorials with undergraduates.

**Hours Alloted to Each Component of Job Duties:**  
Hours of work per week: 3 (for 16 weeks)

---

**Course No.: FRST 444 / AGRO 444**  
**Instructor:** Tom Sullivan

**Course Name:** AgroForestry  
**Total No. Required:** GTA 0.5  
**UTA**

**Required Qualifications:**  
Knowledge of plant species identification and plant/forest ecology. Able to handle audio-visual requirements for a variety of presentation formats.

**Description of General Nature of Duties:**  
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.

**Hours Alloted to Each Component of Job Duties:**  
Hours of work per week: 6 (for 16 weeks)
Course No.: FRST 495  
Instructor: Peter Arcese  

Course Name: Biological Diversity and 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: Forestry 544 – 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: Forestry 545 – 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  
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: _______ (for 16 weeks)

Course No.: CONS 330  
Instructor: Suzie Lavallee  
Required Qualifications:
Familiarity with conservation and reserve design issues, spatial analysis, GIS, and modeling

Description of General Nature of Duties:
Overseeing and grading laboratory sessions (3 lab sections per week), involving discussion, computer exercises and other hands-on activities.

Hours Allotted to Each Component of Job Duties: Hours of work per week: _______ (for 16 weeks)
6-9 hours/week: contact time in labs
2-3 hours/week: prep for labs
2-3 hours/week: marking lab assignments
6 hours total: limited help with grading a portion of exams

Course No.: CONS452  
Instructor: Sarah Gergel  
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: _______ (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)

----------------------------------------------------------------------------------------

Course No: CONS/AGRO 495  
Instructor: Tom Sullivan

Course Name: Wildlife Management  
Total No. Required: GTA 0.25  UTA  

Required Qualifications:  
Background in wildlife ecology preferably with experience in mammal population/bird ecology or management

Description of General Nature of Duties:  
Assist with weekly class discussions and student projects involving analysis and synthesis of large datasets.

Hours Allotted to Each Component of Job Duties: Hours of work per week: 3 (for 16 weeks)

----------------------------------------------------------------------------------------

* * * End of Term 2 Posting * * *