

TEACHING ASSISTANT/MARKER/DEMONSTRATOR POSTING

DALHOUSIE UNIVERSITY - Halifax, Nova Scotia, Canada B3H 4H6

POSTING DATE: November 16, 2020

APPLICATION DEADLINE: November 23, 2020

POSITION: Teaching Assistant/Marker/Demonstrator

DEPARTMENT/LOCATION: Civil and Resource Engineering/Room D215

PAY RATE: Wages and Teaching Assistant/Marker/Demonstrator categories as per C.U.P.E. Collective Agreement

WORK ASSIGNMENT: To be agreed upon by employer and employee as per C.U.P.E. Agreement

GENERAL REQUIREMENTS OF POSITION (Winter 2021 courses will be offered online):

- Demonstrated knowledge and experience in subject area
- Must have completed the Faculty of Engineering TA training
- Experience with on-line communications and platforms, such as MS Teams, Collaborate Ultra, Teams Live, Brightspace, and Panopto
- Excellent verbal and written communication skills
- Knowledge of Canadian codes and practices will be required for some courses
- Some camera/vidiotaping experience
- Up-to-date knowledge of course labs and new safety protocols in place due to COVID-19

To assist in the application process students are asked to rank, in order of preference, the Undergraduate Courses they wish to and are capable of assisting. Please consult the undergraduate course list below to determine which courses will be offered this term that best suit your background and interests. Final selection of Teaching Assistantship assignments will be done in consultation with individual instructors.

Civil Engineering Program

Year 3 - Academic Term 6 (Winter)

<u>Course Number</u>	<u>Title</u>	<u>Professor</u>
CIVL 3200.03	Transportation Engineering <i>(previous transportation and traffic engineering course (or equivalent) are required)</i>	Dr. N. Ali
CIVL 3310.03	Engineering Hydrology <i>(Preference will be given to those applicants who have taken CIVL3310)</i>	Dr. D. Hansen
CIVL 3725.03	Construction Materials & Methods	Ms. S. Einarsdóttir
CIVL 3515.03	Structural Sys. II – Loads & Behaviour <i>(Applicants must have familiarity with the following Codes; National Building Code of Canada (NBCC), Design of Steel Structures (CSA A516), Design of Reinforced Concrete (CSA A23), and Engineering Design in Wood (CSA O86). The applicants must be familiar with S-Frame software)</i>	Dr. F. Oudah
CIVL 3840.03	Professional Practice in Civil Engineering	Mr. C. Dickson

Year 4 - Academic Term 8 (Winter)

<u>Course Number</u>	<u>Title</u>	<u>Professor</u>
CIVL 4250.03	Highway Engineering	Dr. N. Ali
CIVL 4350.03	Hydraulic Engineering	Dr. M. Satish
CIVL 4359.03	Form & Process in Alluvial Channels <i>(Applicant must have knowledge of the use of the HEC RAS software package and demonstrated knowledge of the theory behind it)</i>	Dr. D. Hansen
CIVL 4410.03	Engineering Hydrogeology <i>(Applicant must have a background in hydrogeology)</i>	Dr. B. Kurylyk
CIVL 4460.03	Solid Waste and Landfill Engineering <i>(Preference given to applicants with experience with software programs POLLUTE and SLIDE)</i>	Dr. C. Lake
CIVL 4560.03	Special Topics in Structural Systems	Dr. Y. Liu
CIVL 4711.02	Construction Planning	Dr. N. Ali
CIVL 4703.03	Senior Project II	Dr. Y. Liu

Environmental Engineering Program

Year 3 - Academic Term 6 (Winter)

<u>Course Number</u>	<u>Title</u>	<u>Professor</u>
ENVE 3500.03	Air Quality <i>(Applicant must have working knowledge of AERMOD software)</i>	Dr. L. Boutilier

Year 4 - Academic Term 8 (Winter)

<u>Course Number</u>	<u>Title</u>	<u>Professor</u>
ENVE 4402.03	Env. Design Project	Dr. M. Walsh
ENVE 4000.03	Small Watershed Hydrology	Dr. R. Jamieson

Mineral Resource Engineering Program

Year 2 & 3 – Academic Term 4 & 6 (Winter)

Course Number Title

Professor

MINE 2200.03 Geology for Engineers

Mr. H. Tackley

(Applicant must have completed MINE2200 and MINE3605 or the equivalents)

MINE 3600.03 Equipment Selection & Materials

Mr. A. Boddy

MINE 3611.03 Rock Mechanics

Dr. S. Zou

(Applicant must be knowledgeable in rock mechanics (structural geology, stress analysis, ground support, use of stereographical net, etc.) and be able to conduct laboratory tests, with basic understanding of mining methods. Preference will be given in the following sequence: those who have satisfactorily performed TA duties in this course previously, graduate students with adequate knowledge and undergraduate students who have taken this course and achieved a good mark)

MINE 3612.03 Rock Penetration & Frag.

Dr. N. Bahrani

MINE 4706.03 Mining Geology II

Dr. S. Balideh

(Applicant must have a background in statistics)

MINE 4711.03 Mine Vent. & Env. Control

Dr. S. Balideh

(Applicant must be skilled in VentSim)

MINE 4100.01 Mining Geotechnique

Dr. D. Garagash

Year 4 – Academic Term 8 (Winter)

Course Number Title

Professor

MINE 4710.01 Mine Excavation Systems

Dr. N. Bahrani

MINE 4820.03 Slope Stability

Ms. C. Lin

MINE 4850.03 Sr. Design Project II

Dr. S. Balideh

IF YOU ARE INTERESTED IN THE ABOVE POSITIONS, PLEASE COMPLETE THE REQUIRED APPLICATION FORM BY THE APPLICATION DEADLINE AND E-MAIL TO:

Civil.office@dal.ca. Students will be notified of teaching assignments during the first week of classes in January.

All offers of employment are conditional upon sufficient student enrolment in the course and approval by the University.

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from Indigenous persons, persons with a disability, racially visible persons, women, persons of a minority sexual orientation and/or gender identity, and all candidates who would contribute to the diversity of our community. For more information, please visit

www.dal.ca/hiringfordiversity