Institute of Biomaterials & Biomedical Engineering
UNIVERSITY OF TORONTO

Application for Teaching Assistantship, 2017-18

(PLEASE PRINT LEGIBLY)

Name: Swarup (Surname) Arushri (First Name)

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University where you completed your undergraduate degree: University of Toronto

Year graduated: 2016 **Area of Undergraduate Study/Discipline:** Engineering Science, Biomed + PEY

Start date of current graduate program: **Month** September **Year** 2016

Program type: ☑ MASc ☐ PhD ☐ MHSc ☐ MSc

Current area of research: Developing Surgical Instruments to Facilitate Endoscopic Ear Surgery

Name of Supervisor: Dr. Adrian James

Do you have prior TA experience? ☑ **Yes** ☐ **No**

If yes, when was your last TA assignment? Jan-Apr, 2017 **Course code?** BME 498

Briefly outline any relevant training that you have taken (i.e., teaching workshops with CTSI; safety; experience with Outreach programs; etc):

TA Training Session September, 2016, trained in using a CNC Micro-Mill for machining, Solidworks,

Briefly outline your experience with the peer review process for scientific publications:

I wrote a SickKids Research Ethics Board application to conduct a research study which underwent scientific board and ethics board review and approval.

Please list any published research papers in which you are an author.

I am first author for a CEEA conference proceeding from June, 2017: “Using a Multidisciplinary Team-Based Challenge to Promote Brainstorming and Prototyping of Medical Devices”. I am co-author for an ASME paper submitted in May, 2017. I am writing a clinical research paper to be submitted in an otolaryngology journal this year.

Additional information. *Please feel free to attach a copy of your resume.*

I TA’ed BME 489 (EngSci Biomed Capstone) and BME 498 (Multidisciplinary Captsone) during the 2016-2017 academic year. Through these courses, I made an effort to talk to all groups and offer guidance for their prototypes, presentations and other deliverables. I delivered a lecture sharing my experience with Capstone Design, led a 3D printer training, facilitated two prototyping lab exercises, and marked presentations and reports. I worked with the course instructors last year.

Please indicate which courses you are interested in being assigned to (tutorial positions may involve L= lab, T = tutorial; or L/T = lab and tutorial):

BME205H1 S (L/T)	
BME225H1 S (T)	
BME344H1 F (T)	
BME346H1S (L)	
BME350H1 F (L/T)	
BME358H1 S (L)	
BME395H1 F(L/T)	
BME396H1 S (L/T)	

BME428H1 F (T)	
BME430H1 S (L)	
BME440H1 F (L)	
BME455H1 F (L/T)	
BME460H1 F (T)	
BME489H1 F (T)	X
BME498Y1 (L)	X
BME499Y1 (T)	

BME510H1 S (L/T)	
BME595H1 S (L/T)	
BME1405	
BME1436	
BME1439	
BME1450	
BME1480	

For lab positions, please indicate your skill level and knowledge with the following techniques:

Scale 0—3	Method/Field	Scale 0—3	Method/Field	Scale 0—3	Method/Field
1	Bacterial cell culture	2	Bioengineering design	0	Bioinformatics
1	Biomaterials	1	Biomechanics	2	CAD modelling
1	*C. elegans*	2	Computer modelling/ coding	1	Computing
1	Confocal microscopy	1	Control systems	2	CT scan
1	DNA/RNA purification	1	*Drosophila*	1	ECG, EEG, EMG
1	ELISA	1	Fluorescent microscopy	1	Fluorometry
1	Gel electrophoresis	1	Genetic modifications	1	Human fluids (blood, urine, saliva)
1	Light microscopy	1	Mammalian cell culture	1	Microfluidics
0	MRI	1	Murine models	1	PCR
0	Polarization	2	3D printing	2	Project management
1	Protein engineering	1	Protein purification	2	Quantitative analysis
1	Sample preparation	1	Spectrometry	1	Tissue engineering
	Other:		*Other:*		*Other:*

0 – I am not familiar (never heard of the method/technique/animal)
1 – I am somewhat familiar (used once/several times in undergraduate courses)
2 – I am very familiar (use routinely in my own research)
3 – I am an expert (can write a textbook)

Date: _____ **Signature:** _____

Note: a Union agreement is in effect between U of T and CUPE, Local 3902

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