My name is Arushri Swarup and I am a Master’s in Applied Science (MASc.) student at the Institute for Biomaterials and Biomedical Engineering (IBBME) at the University of Toronto. I started my MASc. in September, 2016. I am supervised by Dr. Adrian James, Otolaryngologist at SickKids and

1.

Most Significant Research Contributions\*

Select the most significant research contributions listed on your CV and outline your role in those contributions, the nature of the contributions and their significance. Please signal any peer-reviewed contributions, and ensure that your role in the contribution is clear. **Maximum 4,500 characters (with spaces), which is equivalent to about 1 page single spaced in Microsoft Word, 10 point Arial font.**

From May to August, 2016 I worked as a research student at the Centre for Image Guided Innovation and Therapeutic Intervention at SickKids. I assisted an MD PhD. Student to perform experiments on robotic wrist joints. I mill machined different geometries of the joints using a CNC mill machine out of Nitinol Tubes. The geometric parameters of the joints

2. Most Significant Personal Contributions\*

Select the most significant personal contributions--committee work, volunteerism, leadership activities, mentorship, etc.--listed on your CV and outline your role in those contributions and how they speak to your character and abilities. **Maximum 4,500 characters (with spaces), which is equivalent to about 1 page single spaced in Microsoft Word, 10 point Arial font.**

2.

Research Project and Significance\*

Provide a brief overview of your proposed research project and describe its significance and expected outcomes, with emphasis on what impacts it might have on your field of study, patients, or other populations. **Maximum 4,500 characters (with spaces), which is equivalent to about 1 page single spaced in Microsoft Word, 10 point Arial font.**

3.

References\*

List the references in your research proposal here. **Maximum 4,500 characters (with spaces), which is equivalent to about 1 page single spaced in Microsoft Word, 10 point Arial font.**

4.

Training Plans\*

Explain why your current or proposed lab is the best place to pursue this research, and how this research project and choice of lab will help you further your professional, research, and personal goals. **Maximum 4,500 characters (with spaces), which is equivalent to about 1 page single spaced in Microsoft Word, 10 point Arial font.**