



## Perera Colombantirige Uthpala Amoda

総合理工学府  
環境エネルギー工学  
一貫制博士2年(修士1年)

Hi again, my name is Uthpala Perera and I am from Sri Lanka. This is my second semester studying at Kyushu University enrolled in the Advanced Graduate Program in Global Strategy for Green Asia. I came to Japan after completing my B.Eng. (Hons.) in Mechanical Engineering at the National University of Singapore. Over the last semester I have had the opportunity to attend many courses offered by the Interdisciplinary Graduate School of Engineering Science as well as the specialized courses offered to GA students under the fields of Social, Environmental and Industrial Studies. With my background in Mechanical Engineering, I was honoured to get the opportunity to work with Assoc. Prof. Kyaw Thu, to further my understanding regarding adsorption science and to hopefully make a contribution to this developing field. I have been able to begin my exploration in to this field, whilst also getting the opportunity to carry out practical experiments on a Mechanical Vapour Compression Chiller as a member of the Koyama-Miyazaki lab. I was also able to participate in my Practice School assignment, where I worked with Bry Air Asia Pvt. Ltd, a company dealing with dehumidifiers and adsorption chillers. This was a great opportunity to witness first-hand the applications of the adsorption field as well as the complexities involved in it. During my few months in Japan, I have already gotten to experience my first typhoon and earthquake, which continuously show the resilience and strength shown by the people of Japan, and it inspires me to continue and learn more from this unique culture and country. I am truly grateful for this once in a lifetime opportunity to study in Japan and at Kyushu University under the GA program and I reiterate my ambitions of exploring Japan and helping to contribute towards a Greener Asia and a more Sustainable World.



## Tahmid Hasan Rupam

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一貫制博士2年(修士1年)

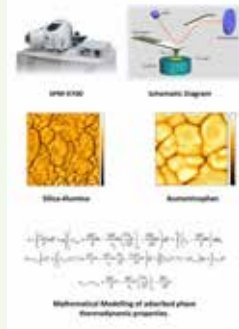
Hi, this is Tahmid Hasan Rupam. I belong to the sixth batch of Green Asia Students in Kyushu University (Dept. of Energy and Environmental Engineering, Interdisciplinary Graduate school of Engineering Sciences). I have completed my graduation from the Department of Electrical and Electronic Engineering (former Applied Physics, Electronics & Communication Engineering) at University of Dhaka, Bangladesh.

My primary research objective is in the field of Energy Engineering focusing on efficient use of produced energy as well as searching for other green sustainable energy sources. Now, as a Green Asia Student, I am doing my masters course in Energy and

Environmental Engineering because of its significant role in the society, especially in developing nations, and across a variety of environmental friendly technologies including thermally powered air conditioning cycles, next generation power generation technologies and material sciences.

Now in Saha Laboratory, under the supervision of professor Bidyut Baran Saha, I am looking forward to having a contribution regarding the developments in the adsorption refrigeration and cooling systems. My research is now focusing on the development of mathematical models for estimating the thermodynamic property fields (Entropy, Enthalpy, Specific Heat, Internal energy, etc..) for the adsorbed phase of different adsorbent-adsorbate pairs. The modelling of these quantities is needed to calculate the energy balance of the adsorption refrigeration system.

Apart from that, I am now using the AFM (atomic force microscopy) to determine the surface nature of different adsorbent materials. My ultimate goal is to find the relation between surface energy and adsorption phenomena by looking into the material. So far I have taken several images of different adsorbent materials.



## Zhang Li

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Since I joined the GA program, I have taken many GA courses and activities. The GA program has helped me establish a global and international view. Because many international students will join these courses or activities together with me, we can exchange our opinion upon a certain topic. And teachers on the lecture or seminar are also encourage our students to give our own perspective of view. In addition, the activities or internships provided by GA helped me understand

more about how the industrial system works in this city. For example, from the field trip about "urban garbage collection, utilization and recycling", I learnt that how great an effort has been made by the citizens of Fukuoka on this city's construction. Every citizen follows the rules about waste sorting and recycling, the garbage collected and transported to the rubbish recycling station is taken as resources and be reused again. Last but not least, it has been about one year since I entered my laboratory and I have done and learnt so much about my research work. I believe I will be a qualified master student and be well prepared for my doctoral research study.

