**Somak Sengupta**

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Recent graduate from University of Manchester. Looking for jobs in the environmental sector. Extensively used R studio and python for GIS based programming and data analysis. Also well versed with software’s like QGIS and Jacobs Flood Modeller. Allowed to work in UK till 14th December 2024. Could extend stay with employer sponsorship.

# Key Skills

## Analytical

* Widely interviewed representatives from car-manufacturing companies, reviewed scientific literature and wrote a research paper on the most critical challenges in environmentally sustainable automobile manufacturing. The paper was published in the Journal of Sustainable Consumption and Manufacturing (impact factor = 8.921) in 2018 and cited 27 times till date.
* Gathered useful insights into the global challenges in sustainable manufacturing cross 12 industries by analysing and evaluating a wide range of literature. Presented my findings in a research paper which was published in OPSEARCH journal catalogued by Springer in 2019.
* Found the key role played by private gardens which have a rich vegetation and penetrable walls for enabling hedgehog movement in urban UK through my dissertation research work which was focused on analysing the habitat connectivity of ground-dwelling animals like hedgehogs during predicted future flooding events in the UK.

## Communication

* Entrusted with writing emails and sharing newsletters to all Jacobs employees across India and later also to employees in southeast Asia as the Jacobs Career Network (JCN) India communication lead.
* Majorly contributed to the design and content creation of JCN India newsletters.
* Wrote engaging blogs on sustainable engineering practices on behalf of the Jacobs Gurgaon sustainability team.
* Presented an online webinar based on sustainable piping engineering to the entire staff of the Jacobs Gurgaon office.
* Conducted a town hall session on Inclusion and Diversity in the Jacobs Gurgaon office.
* Liaised a group call between Jacobs Gurgaon and the Ch2m Noida office after acquisition, to facilitate an exchange of ideas on the technologies that can ensure safety in a workplace.

## Teamwork

* Directly coordinated with the Jacobs US office for a Pfizer workshare project and Jacobs Ireland for a Leo Pharma workshare project. Achieved tight deadlines through structured communication with team members at both offices.
* Managed and trained a team of 9 members for effectively analysing 3D model clashes for a Wuxi Ireland project within a very short time frame. Additionally, trained 4 members for an Eli Lilly Ireland project for effectively using Microsoft PowerPoint to develop miscellaneous piping support drawings.
* Led a team of 14 members to develop newsletters for the Jacobs Careers Network India Team. Supported individual members, allocated tasks according to each one’s strengths and monitored progress for timely newsletter release.

## Organisational

* As a Jacobs Gurgaon Inclusion Week 2019 organizer and treasurer, managed the budget for all expenses related to organizing events, refreshments, and prizes. Selected plant pots as gifts for all volunteers. Wrote volunteer names with a memorable quote on each pot to make each one feel recognized and appreciated for their contributions.
* Organised a day trip to the Aravali Biodiversity Park in Gurgaon for all employees in the Gurgaon office to promote employee health and well-being. Saw to it that refreshment packets were disposed of safely to ensure cleanliness in the park.

# Education

## 2021 - 2022 MSc in Environmental Monitoring, Modelling and Reconstruction (Hons)

##  (Awarded Merit), The University of Manchester, UK

## 2013 - 2017 Bachelor of Technology in Mechanical Engineering (Hons)

##  (UK Equivalent: First Class), The Northcap University, Gurgaon, India

## 2000 - 2013 DAV Public School, Gurgaon, India

 **Science Stream, CBSE Higher Secondary Exam Overall Score: 84.4% (2013)**

 **CBSE Secondary Exam Overall Score: 89.3 % (2011)**

# Work Experience

## Nov 2022 - Current Research Assistant, Kingston University, UK

* Working on the development of a climate action framework which helps Kingston University to achieve its Net Zero Carbon (NZC) targets. Also doing research on the best practices which Universities can adopt to make their operations more sustainable.

## Sept 2017 - Aug 2021 Design Engineer-Piping-Stress & Support

##  Jacobs Engineering Group Inc., Gurgaon, India

* Stress analysed metallic and non-metallic process piping networks subjected to high temperatures and high pressures for pharma, semiconductor, and chemical industries.

## May - July 2016 Engineering Intern, Engineers India Limited, Gurgaon, India

* Designed Shell and Tube Heat Exchangers using ASME and TEMA standards. Developed excel model to predict outputs from large datasets.

**Software Skills**

* Data modelling using RStudio and Microsoft Excel. Flood modelling using Jacobs flood modeler.
* Analysing habitat connectivity for terrestrial animal species using RStudio.
* GIS coding using Python software. Also, proficient in QGIS software.
* Using Autocad for basic engineering in Jacobs.
* Piping stress analysis on Caesar II and Autopipe software in Jacobs.

**Volunteering Experience**

* Volunteering as the team leader for Conquest Art Kingston since November 2022. This is a group for disabled people to come and make art together. I must maintain the accounts and take responsibility of the communications as the group leader.
* Volunteered for an Indian NGO called Donate an Hour, for a year and a half. In this role I taught children English and math between the ages of 4 to 10 years every week for a few hours.