**Resume/CV and Cover Letter**

1. Application Number : 000000028686

2. Name of Applicant (Last Name, First Name, Middle Name) :

N Nandan

3. Name of Your University and Department : PES University, Department of computer science

4. Name of Supervisor you wish to work under during the Program:

**Resume/CV:**

Your resume/CV should include in-depth descriptions of any work experience, responsibilities or projects relevant to your field of study as well as the research topics on which you wish to work during the program.

(Max. 3,000 characters including spaces)

I am deeply interested in Chemistry and Biology, and I want to become a researcher in it. I have been a Teaching Assistant for the course UE21CH141A, "Engineering Chemistry” and successfully managed the course website and online resources, including slides and notes. I also contributed to the development and implementation of course assessments and provided individualized student support through one-on-one assistance. I was awarded First Place in the Solance 2019 Inter-Department Project Exhibition, among 400 exhibits, and I am also the co-founder and head of the largest Chemistry Club at the university, the Student Chemistry Society.

I am currently working as a Research Intern, where I am researching the topic of "The methods for the classification and treatment of waste." I have conducted extensive research on innovative waste management methods, including recycling, composting, incineration, landfilling, and waste-to-energy. My focus is on developing new methodologies for the classification and treatment of waste with the goal of reducing waste generation and improving sustainability. I am also working on public outreach to educate freshman students in the field of waste management. Additionally, I assist in research presentations to the team or collaborating organizations.

Due to my strong chemistry and mathematics knowledge, I was selected to represent India in an international water rocket competition as competing against 13 other countries in the Asian Pacific region. I worked under the guidance of the Indian Space Research Organization (ISRO) to design and build a successful water rocket.

I have completed several online certifications in subjects such as evolutionary biology, inorganic and physical chemistry, advanced learning pedagogy, zoology and psychology.

In my extra-curricular activities, I have been a writer and reporter, publishing numerous short stories, articles, reports, and interview transcripts related to science and chemistry. I am also a contributor and lead maintainer of a research blog called Research Et Al. I have won several state and national level science quizzes as a quizzer and have participated in various quiz tournaments representing my university. In my volunteering experiences, I have mentored and tutored over 80 students in chemistry and programming and helped plant over 100 trees across the college to build a green ecological campus. I have also participated in and led community service projects to create food banks and animal shelters.

I believe that my passion for chemistry combined with my education and hands-on experience, make me an excellent candidate for the Amgen Scholars Program at Tokyo. I am eager to contribute my skills and experience on the project of professor Ueda R. Hiroki’s “sleep research, circadian rhythm, and systems biology” to expand my knowledge and gain a deeper understanding of these important areas of study.

**Cover Letter:**

Please address the following questions:

* Your reasons for selecting a particular research project at the UTokyo Amgen Scholars Program, and what you hope to gain from this experience.
* How you are technically qualified for the particular research project that you have selected, briefly highlighting your skills and experience when they are specifically required by the relevant faculty member, or when they appear to be helpful to conduct a particular research that you selected.
* One of the main purpose of the program is to provide practical research experience at a top-level research environment to students attending institutes that are not able to provide top-level facilities. Based on this, please also describe the current research environment at your university/college if you consider it necessary.

(Max. 3,500 characters including spaces)

As a sophomore aspiring to be scientist, I am incredibly interested in pursuing research in the field of sleep research, circadian rhythm, and systems biology. That is why I am eager to participate in the UTokyo Amgen Scholars Program under professor Ueda R. Hiroki’s lab, where I hope to gain hands-on research experience and knowledge about this fascinating area of study. I have read the professor’s previous works and research paper on sleep cycle and circadian clocks, and I am excited to work under him.

My interest in sleep research stems from my strong desire to understand the complex interplay between the human body, the environment, and the many different factors that influence our ability to get a good night's sleep. Circadian rhythm, in particular, is a topic of immense interest to me, as it has the potential to provide valuable insights into a wide range of physiological processes and diseases.

In terms of my qualifications, I have a solid background in chemistry and biology, where I have scored highest in the class, as well as computer science, which I believe will be useful in the analysis and interpretation of data collected during the research project. Additionally, I have taken several online courses in physiology, sociology and psychology, which have provided me with a strong foundation in the biological and physiological concepts that are fundamental to sleep research. My experience as teaching assistant in chemistry and Intern at startup has provided me with strong work experience and ethics which will further aid me in this.

Despite my strong background, I recognize that there is much more for me to learn in this field, and I believe that participating in the UTokyo Amgen Scholars Program will provide me with an unparalleled opportunity to do so. Specifically, I hope to gain a deeper understanding of the biological and physiological processes that underlie sleep and circadian rhythm, as well as the various technologies and methods that are used to study these phenomena.

Finally, I would like to mention that my current university/college does not have a strong research environment in the field of sleep research and circadian rhythm. Being a small university from third world country, the laboratory runs on a small tight budget with low support with lab users paying and self-funding everything including interns. This is why I am particularly eager to participate in the UTokyo Amgen Scholars Program, as it will provide me with the opportunity to work in a top-level research environment and gain valuable hands-on experience.

In conclusion, I am deeply committed to advancing our understanding of sleep and circadian rhythm, and I believe that the Tokyo Amgen Scholars Program is the ideal venue for me to do so. I am eager to contribute my skills and knowledge to this important field of research, and I am confident that this experience will be a valuable addition to my education and career.