We are the research team working on the development of a heart simulator at the Department of Mechanical Engineering BIT Mesra, Ranchi. We are excited to announce a unique summer internship opportunity for students who are passionate about multidisciplinary engineering challenges and eager to contribute to innovative research in the field of biomechanics.  
  
Our project focuses on simulating the intricate dynamics of the human heart, which involves tackling complex multiphysics problems. One crucial aspect of our research involves the design and optimization of a membrane pump, a component integral to the functionality of our heart simulator. This presents an exciting opportunity for students to delve into the realm of biomechanical engineering, gaining hands-on experience in a highly specialized area of study.  
  
We are specifically looking for motivated students currently pursuing a B.Tech in Mechanical or Biotech Engineering, with proficiency in software tools such as SolidWorks and ANSYS. Additionally, candidates should possess strong skills in technical writing, as effective communication is essential in documenting and disseminating our research findings.  
  
As an intern with our team, you will have the opportunity to:  
  
Gain practical experience in multiphysics simulation and computational modeling.  
Contribute to the design and optimization of critical components within our heart simulator, including the membrane pump.  
Collaborate with experienced researchers and engineers in a dynamic and innovative research environment.  
Develop your technical writing skills through the documentation of your research findings and contributions.  
This internship offers a unique chance to apply theoretical knowledge to real-world problems, while also fostering professional growth and networking opportunities within the field of biomechanical engineering.  
  
If you are interested in joining our team and contributing to this exciting project, please submit your application by April 30, 2024. To apply, please send a copy of your resume/CV and a brief statement of interest outlining your relevant experience and why you are interested in this internship opportunity to [nirmal@bitmesra.ac.in](mailto:nirmal@bitmesra.ac.in).  
  
Thank you for considering this opportunity, and we look forward to receiving your application. Should you have any questions or require further information, please do not hesitate to reach out.