



WORK OFFER

Ref. No. IN-2020-24005-KU

Employer Information

Employer: Faculty of Science & Humanities, Karunya Institute of Technology and Sciences
Science & Humanities
Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore, Tamil Nadu, India
Karunya Nagar
641114 Coimbatore
India

Website: www.karunya.edu

Location of placement: Karunya Institute of Technology and Sciences, Coimbatore
Nearest airport: Coimbatore International Airport
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 600
Business or products: Educational

Student Required

General Discipline: 40C-CHEMISTRY, MATERIAL SCIENCE, AND CHEMICAL ENGINEERING
Field of Study: 40.0501-Chemistry, General.

Completed years of study: 3
Student status requirements: required during internship
Language required: English Excellent

Required Knowledge and Experiences:

Intern must possess essential knowledge in molecular imaging applications.

Other requirements:

Work Offered

Porphyrin nanostructures offer a challenging alternative to material nanotubes in addition to peptide and other biomaterial nanotubes. The involvement of porphyrin-based nanostructures in many biological processes and the possibility to tailor their physical and chemical properties, including polarizability, absorption spectrum, energy transfer, and catalytic properties, at the molecular level make them extremely versatile synthetic materials in many disciplines of science like electronics, photophysics catalysis and nonlinear studies. The research will focus on the study of the structural and energetic properties of porphyrin molecular complexes using cutting edge quantum chemical techniques. The geometrical behavior of various porphyrin structures in the presence and absence of axial ligands will be studied in order to understand the importance of axial ligands in the formation of stack-like structures. Various parameters namely thermodynamics, HOMO LUMO and molecular electrostatic potential of the complexes will be explored.

Number of weeks offered: 12 - 12
Working environment: Research and development
Within the months: 01-JUL-2020 - 01-OCT-2020
Gross pay: 8000 INR / Month
Or within: -
Deduction to be expected: 0
Company closed within: -
Payment method / time of first / payment:

Latest possible start date:

Accommodation

Canteen at work: Yes
Expected type of accommodation: Student dormitory
Estimated cost of lodging: 5000 INR / Month
Accommodation will be arranged by: IAESTE LC-Karunya
Estimated cost of living incl. lodging: 8000 INR / Month

Additional Information

For more information about the local committee: <http://explore.iaeste.in/ku>

Nomination Information

Deadline for nomination: 15-MAR-2020

Date: 02-FEB-2020 **On behalf of receiving country:** Siddharth Chadha