



Birla Institute of Technology & Science, Pilani

K K Birla Goa Campus

Dated: 24.02.2022

Advertisement for JRF position in the Department of Chemical Engineering

Applications are invited for a Junior Research Fellow (JRF) position in the Department of Chemical Engineering at BITS Pilani- K.K. Birla Goa Campus for an ONGC Energy Centre Sponsored Collaborative Project as per the details given below:

Title of the project: Design, Development and Bench-scale Demonstration of Electrochemical Hydroiodic Acid (HI) Decomposition in a Continuous Flow System for I-S Cycle

Sponsor: ONGC Energy Centre (OEC)

Qualifications: M.E./M.Tech. in Chemical Engineering or equivalent Engineering disciplines with min. 60% marks in preceding examination. Preference will be given to candidates having GATE score.

Emoluments: 31,000/- per month

Duration: 2 years

Accommodation: Hostel accommodation will be provided subject to availability and subject to rules and regulation of the Institute.

Project Overview: Hydrogen is expected to play an important role in India's energy sector as a green carbon-neutral energy source while addressing the ever increasing energy demand. Among the various green hydrogen production technologies from water, hybrid thermochemical cycles which use heat, electricity and chemical recycling agents offer a scalable and efficient method of producing hydrogen on a large scale. The current project aims to solve some of the major challenges associated with the iodine section of the Iodine-Sulfur thermochemical cycle by developing an alternative low temperature electrochemical system. The broad objective of the proposed project is to design, develop and test a continuous flow system for the electrochemical Hydroiodic processing as an alternative to the conventional high temperature iodine section of the I-S cycle. This project is a part of an ongoing effort in large scale hydrogen production headed by the ONGC Energy Centre in collaboration with various research institutes and organizations in India, including Indian Institute of Technology, Delhi (IIT Delhi), CSIR Labs, Institute of Chemical Technology (ICT) Mumbai, etc.

How to apply: Applications with detailed CV and scanned copies of mark sheets (high school onwards) should reach the **PI by 10th March, 2022 by email**. In addition to the above documents, submitting a short (1-2 pages) write-up on your technical abilities, your motivation for this project position along with the application is encouraged. The applicant will be responsible for the authenticity of information, other documents and photographs submitted. Candidates who are already employed should produce relieving certificate from their employers, if selected. The application is to be sent only by email to pradeeps@goa.bits-pilani.ac.in. The shortlisted candidates will be intimated by email and called for the interview.

The selected candidate will be allowed to register for a PhD programme of BITS Pilani, K. K. Birla Goa Campus as a full time candidate if selected (subject to fulfillment of PhD rules and regulations of the Institute).

Principal Investigator (PI):

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