Applications are invited from highly motivated and eligible candidates for the position of Junior Research Fellow (JRF) on a DST-SERB funded Research Project titled “Development of bimetallic catalysts for direct non-oxidative conversion of methane to higher hydrocarbons”.

Overview of the project:
Conversion of methane to higher hydrocarbons has attracted a significant attention, globally. From the past two decades, a majority of the work on this topic has been focused on development of direct non-oxidative catalytic processes due to their distinct advantages. In order to overcome the catalyst deactivation, various approaches during the catalyst development stage are reported in the literature. Use of bimetallic catalysts is one of the strategies towards enhancing conversion of methane and simultaneously the yield and selectivity of the desired products. In the present work, different strategies of developing bimetallic catalyst along with their thorough physic-chemical analysis will be investigated. The developed catalyst will be used for studying conversion of methane to higher hydrocarbons.

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

ELIGIBILITY

**Essential Qualification:** B.E./B.Tech/M.E./M.Tech. in Chemical Engineering or equivalent Engineering disciplines with min. 60% marks in preceding examination. Candidate with GATE score will be preferred. Candidates with prior experience in synthesizing and characterizing powdered materials will be preferred.

**STIPEND:** Fellowship of JRF will be Rs. 31,000/- per month for first two years and Rs. 35,000/- per month for third year. After three years, the fellowship is subjected to availability of the funds.

**ACCOMODATION:** Hostel accommodation will be provided subject to availability and subject to rules and regulation of the Institute prevailing at the time of joining of the candidate.

**DURATION:** Initial appointment will be for one year, which is extendable to further 2 years based on the performance. **It is expected that the selected candidate will join the project with immediate effect.**

HOW TO APPLY

Interested candidates are requested to submit a detailed CV to Dr. Sharad Sontakke, Department of Chemical Engineering, BITS Pilani K K Birla Goa Campus, Zuarinagar – 403726 by email: sharads@goa.bits-pilani.ac.in on or before 25th Jan. 2020. Incomplete applications will be rejected. Only shortlisted candidates will be communicated via e-mail for further interaction via skype or in person. No TA/DA will be paid for appearing in the interview.

(NOTE: For any queries, please write to Dr. Sharad Sontakke; sharads@goa.bits-pilani.ac.in)