



## DEPARTMENT OF CHEMICAL ENGINEERING

### ADVERTISEMENT FOR RESEARCH FELLOW

Applications are invited from highly motivated and eligible candidates for **ONE** position 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 (strictly subjected to fulfillment of PhD rules and regulations of the Institute).**

**ELIGIBILITY:** M.E./M.Tech/B.E./B.Tech **in Chemical Engineering** 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:** Appropriate fellowship (Rs. 31000 for GATE qualified and Rs. 28,000 for non-GATE student) will be considered (as per DST and Institute's rules). The fellowship will be provided for maximum period of 3 years after which it 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 purely based on performance. **It is expected that the selected candidate will join the project as soon as possible.**

#### **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](mailto:sharads@goa.bits-pilani.ac.in) **on or before 30<sup>th</sup> June 2020**. Incomplete applications will be rejected. Only shortlisted candidates will be communicated via e-mail for further interaction via skype/telephone.

