National Institute of Advanced Studies, Bengaluru

Call for Applications: Project Staff (Research Fellows and Project Assistants) in the Energy and Environment Program

National Institute of Advanced Studies (NIAS) was conceived and founded in 1988 by the late Mr. J. R. D. Tata, who sought to create an institution to conduct advanced multidisciplinary research. Housed in a picturesque green campus in Bangalore the Institute serves as a forum to bring together individuals from diverse intellectual backgrounds, in the natural and life sciences, humanities, social sciences, and conflict and security studies. The philosophy underlying NIAS is given shape by its multidisciplinary research teams. The Institute is unique in its integrated approach to the study of intersections between science and technology, philosophy, social issues and leadership. The objective is to nurture a broad base of scholars, managers and leaders who would respond to the complex challenges that face contemporary India and global society, with insight, sensitivity, confidence and dedication. Please go through our website (www.nias.res.in) for more details.

NIAS is recognized as a center for research by the Government of India (GOI) and several universities. In May 2018, the Energy and Environment Program (EEP) at NIAS secured a 5-year grant from the Ministry of Earth Sciences (MOES) "*to understand the Interaction between components of Earth and Human Systems at various Spatial and Temporal Scales*." EEP is now recruiting capable and enthusiastic **Junior Research Fellows** to accomplish *inter alia* the following key objectives of this research Project:

1. To analyze and model Air Pollution at select locations to assess the relative contribution of different emission sources in a geographical area.
2. To study socio-economic impact of select MOES's programs with reference to the Sustainable Development Goals;

The aforesaid objectives must be accomplished in the form of PhD dissertations through both field and analytical studies which will also contribute to policy recommendations after incorporating the views of different key stakeholders.

Concurrently, EEP is also working on two other GOI-funded research projects sanctioned by the Department of Science & Technology (DST) and the Science & Engineering Research Board (SERB), respectively. The over-arching goals of these two research Projects are:

1. To find optimal and workable technology and policy interventions to meet the Southern Region's growing needs for reliable, low-cost energy while mitigating the environmental impacts of coal utilization.
2. Explore sustainable pathways towards energy security at affordable prices, while minimizing the adverse impact on ecology.

EEP is now recruiting capable and enthusiastic **Project Assistants** to carry out the research and field work required to accomplish these research objectives through *sustained field work in rural*

areas of Karnataka and *Telangana* to collect primary data followed by statistical and other analysis.

ELIGIBILITY

For Junior Research Fellows (JRFs) – (Two Positions)

Master's degree in Atmospheric Sciences/ Environmental Science/ Mathematics/ Mechanical engineering/ Physics OR Development Studies/ Economics/ Environmental Economics/ from a reputed Institution/University with a minimum of 60% marks or CGPA of 7.0 (10-point scale) or CGPA of 3.5 (5-point scale) at the undergraduate and post-graduate levels. Further, they should have successfully completed one of the following National Qualifying Examinations:

- GATE or CSIR-UGC (NET) for award of JRF in case of Engineering/Science graduates **OR** UGC-NET for award of JRF in Economics/ Development Studies.

In the case of graduates in Atmospheric Sciences/ Environmental Science/ Mathematics/ Mechanical engineering/ Physics, preference will be given to candidates who have specific research interests and also possess aptitude and skills in climate/ pollution modeling. In the case of graduates in Development studies/ Economics/ Environmental Economics, NIAS is looking for candidates who have conducted field-oriented research studies and also possess reasonable quantitative skills (statistics/econometrics/operations research).

The monthly emoluments are fixed at Rs. 25,000 + HRA as applicable to Bengaluru, which is currently 24% of the basic fellowship. In due course, the selected candidates will have to register for a PhD degree at the Manipal Academy of Higher Education (https://manipal.edu) or Transdisciplinary University (http://tdu.edu.in) under the guidance of NIAS faculty associated with the MOES Project.

For Project Assistants (Three positions in DST/SERB Projects)

Bachelor's degree in Electrical/Mining Engineering or a Masters' degree in Development Studies/ Economics/ Geology/ Sociology from a reputed Institution/University with a minimum of 60% marks or CGPA of 7.0 (10-point scale) or CGPA of 3.5 (5-point scale) at the undergraduate level. Preference will be given to candidates with demonstrated survey and language skills (in Kannada and/or Telugu) required to complete the project field work in Karnataka and/or Telangana.

Selected candidates will be entitled to a consolidated stipend of Rs.15,000 per month depending on qualifications, experience, and performance as per applicable DST norms.

HOW TO APPLY

Interested applicants should submit their curriculum vitae, degree certificates, and a brief statement of interest (not exceeding 500 words) explaining why they are interested in joining the Program. Please collate all documents in a single electronic folder and email it to: eepdst@nias.res.in.

NIAS will accept only applications submitted by email. The deadline for receipt of emailed applications is **31 March 2019.** All applicants should clearly state: **JRF for NIAS-MOES Project** OR **Project Assistant for NIAS-DST Projects** in the subject line of their email. Short-

listed candidates will be invited to NIAS for an interview. Outstation candidates will be provided accommodation at NIAS based on availability.

For additional information, applicants may contact:eepdst@nias.res.in.