ADVERTISEMENT FOR THE POSITIONS OF POST-DOCTORAL FELLOWS

IIT Delhi invites applications from qualified Indian Nationals, Persons of Indian Origin (PIOs) and Overseas Citizens of India (OCIs) for the Post-Doctoral Fellows (PDF) in the Department of Mechanical Engineering in the specialization mentioned. The appointment will be made exclusively for research purposes and will be initially for one year and can be extended further by one more year contingent on the available project funding.

Qualified persons include:

   a) Institute specifically encourages applicants from SC/ST/OBC category as well as persons with disability to apply for these positions.
   b) Maximum age is 32 years for male and 35 years for female candidates (to be relaxed by 5 years in case of persons with a physical disability, SC and ST and 3 years in case of OBC-NCL).
   c) Number of posts – One (01)

Consolidated amount of Fellowship to Post-Doctoral Fellows (PDF):
The consolidated Fellowship amount is Rs. 75,000/- per month. House Rent Allowance (HRA), in lieu of on-campus housing, will be @ 24% of the fellowship amount.

BACKGROUND AND SPECIALIZATION:
IIT Delhi is conducting a research and development project with a leading renewable energy company in India with global outreach in developing sodium sulphur batteries. While the basic cell level work is being done, a position is open for a researcher with a background in battery system design, packaging, and BMS systems.

Specialization: Battery systems, assembly, system integration, electronics, thermal management system, safety analysis, and testing of various systems for their life cycle analysis. Knowledge of electrochemical batteries with an understanding of sodium sulphur will also be useful.

As a Post-Doctoral fellow at IIT Delhi, you would benefit from exposure to world-class research and technology development in an upcoming energy-efficient technology in an interdisciplinary setting. You will have opportunities to interact with academicians from diverse backgrounds, engineering consultants, and equipment manufacturers. You can also gain exposure to teaching-learning methods, particularly, in the context of clean energy technologies.

MINIMUM QUALIFICATIONS AND EXPERIENCE:

Essential Qualifications:

   1. Ph.D. (First Division) in energy systems with a specific focus on battery systems, or electronics / electrical on power electronics design or mechanical with thrust on battery
system design and packaging of battery cells or mechanical with thrust on battery manufacturing
2. Knowledge of simulation methods for battery systems
3. Testing of battery systems as per IEEC codes
4. Excellent written and verbal communication skills with a prior record of publications in reputed journals and/or conferences in their field of research

Desirable Qualifications:

1. Knowledge and prior experience with emerging battery technologies and system integration
2. Techno-economic analysis of new energy technologies
3. Prior experience with Lithium-ion/ Lithium-metal / Li Sulphur /Sodium Sulphur battery design
4. Prior experience with project management

Documents Required for Application

1. Latest CV/Resume.
2. A letter of motivation, also mentioning your experience and its relevance to the job description.
3. A copy of your academic transcripts for each college degree.
4. Names and contact information of two referees, persons with whom you have worked, and whom we may contact for reference.

Clearly label the documents (in PDF format) as “CV”, “Motivation letter”, “Academic transcript PhD”, etc.) to complete your application.

NOTES:
- The minimum requirement of qualifications and/or experience may be relaxed in respect of exceptional candidates.
- Mere fulfilment of the required minimum qualifications and experience does not entitle a candidate to be called for an interview/discussion.
- The Institute reserves the right to fill or not to fill the posts advertised.
- The candidates called for presentation/discussion will be paid AC2-Tier fare by Train/Economy Class by Air or actual expenditure and AC Taxi by road (from Airport/Railway Station/ISBT and back) fare from their place of residence/work and back by the shortest route within India, subject to production of tickets/receipts.

ACCOMMODATION: Not eligible for residential accommodation on the Campus.

ABOUT THE CAMPUS: Extending into an area of 320 acres, the campus is imaginatively laid out with a picturesque landscape with clean and wide roads. The campus provides all essential amenities for community living including Staff Club, Hospital, Shopping Centre, Banks, ATMs, Post Office, Community Centre, etc.

It is a requirement that candidates visit the IIT Delhi website (https://home.iitd.ac.in/jobs-iitd/index.php), and submit the completed application for appointment for the above position. The website also contains useful information on various aspects of working and living at IIT Delhi and on the recruitment process. As a precaution, after submitting the application through the website, please retain a copy of the application with you. Candidates employed with
Government/Semi-Government Organizations or with Autonomous Bodies must submit a printed version through proper channel at the address given below.

**Only in those cases where Internet access is not available**, an application form may be obtained from the Deputy Registrar (E-I) by sending a self-addressed envelope (26cm x 11cm) to the address given below. The completed application may be sent by postal mail to the address given below.

**The last date for submission of applications is October 31, 2022.**

Contact Address:
Deputy Registrar (E-I)
IIT Delhi, Hauz Khas,
New Delhi-110016 (INDIA)
Telephone: +91-11-26591716, Fax: +91-11-26597216
E-mail: ar_e1@admin.iitd.ac.in