



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT287/2024

Job Title

Project Research Scientist

Job Reference Number

50631273

Application End Date

23.09.2024

Type of Employment

Proj. Staff Contract

No. of Position(s)

1

IITB Project Recruitment:

Project title: Hydrogen pressure vessel manufacturing using Texttile based CompositesTeCoPV India.

About the project: Hydrogen pressure vessel manufacturing using Texttile based Composites

Essential Qualifications & Experience:

Ph.D in the field of microstructural modelling .

Exp- Any experience in the field of mathematical modelling, optimisation, and micro mechanics of composites will be preferred..

Job Profile:

* Advanced understanding of

- Advanced Composite Materials,
- Mechanical Behavior of Materials,
- Fracture Mechanics and Failure Analysis,
- Modeling, and Simulation, Finite Element Analysis,
- Additive Manufacturing,

* Knowledge and experience with various fatigue and mechanical testing, mechanical processing, and CNC, machines,

* Independently handle Mathematical Modeling of Microstructure and Microtexture Evolution and analysis of the same

* Develop algorithm and software with graphical user interface to generate assemble of multiple microscopic images for better analysis

* Understanding of Machine Learning, Industry 4.0 as required by the project

* Lead the whole team for timely completion of the project with deligence and accuracy of the results

* Coordinate with partners, ensure day-to-day communication. Actively manage, administer and participate in decision-making for the project.

*Actively engage in high-quality research and publication and presenting results at scientific conferences in the area of specialization

Pay Details:

Level PR- O2 : Salary range from Rs.42000 to Rs. 84000 + Rs.7500.00/- Out Of Campus Allowance (if applicable) p.m.

General information:

The position is temporary for a period of 1 year and tenable only for the duration of the project. The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at his/ her own expenses.

For any queries/clarification please contact: recruit@ircc.iitb.ac.in