



BITS Pilani

Pilani | Dubai | Goa | Hyderabad | Mumbai
Research & Innovation

Research Fellow (to join as PhD Scholar)
LGD/Diamond Thin Film using MWCVD

Pilani Campus | Deadline: 30 Sept, 2023|
Joining: At the earliest

Date: 20 Sept, 2023

Applications are invited for **ONE** position of **Research Fellow*** on project, “**Synthesis, development, and fabrication of lab-grown diamond/ diamond-based composite films using coupled microwave-chemical assisted route**” under the supervision of **Prof. Radha Raman Mishra** (Department of Mechanical Engineering), **Prof. Tribeni Roy** (Department of Mechanical Engineering), and **Prof. Surojit Pande** (Department of Chemistry), BITS Pilani (Pilani campus), Rajasthan.

*The selected candidate will be encouraged to join PhD Program of BITS Pilani. Interested candidates should check the eligibility criteria and qualification process of the PhD program of BITS Pilani (<http://www.bitsadmission.com/phmain.aspx>).

| Scope of work | Essential Qualification | Desirable Qualification |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> Development of a facility for coupled microwave-chemical assisted route. Fabrication of LGD/diamond composite thin films. Characterization and testing of LGD/ diamond composite thin films. Modelling and simulation. | <p>M.E./ M. Tech. in specializations Mechanical/Manufacturing/CAD/CAM/Production/Metallurgical/ Materials/Nanotechnology/ or any other relevant specialization with at least 60% marks.</p> <p><i>GATE qualified candidates will be given preference.</i></p> | <p>Experimental exposure to materials processing and characterization.</p> <p>Preferable: Experimental/theoretical knowledge of – semiconductor materials, nano-fabrication techniques, thin film, microwave processing of materials, and experience of modelling and simulation.</p> |

Fellowship: ₹37,000 - ₹42,000 per month (based on the year of PhD and performance)

Duration: As per BITS Pilani norms (<http://www.bitsadmission.com/phmain.aspx>)

Place of work: BITS Pilani, Pilani Campus, Rajasthan 333031

Application process: Please apply with **CV and Cover letter** (showing alignment and justification with the roles/responsibilities/requirements) using this form –

- Google form link: <https://forms.gle/mVhnXNZ7pr619iER8>
- Deadline: **30 September 2023**

Preliminary shortlisting will be based on resume and telephonic/audio-visual interview within a week of last date of application. For final interview, the candidate will be informed through e-mail/ Phone for interview. No TA/DA will be provided in case of personal interview. For more details, please contact:

Dr. Radha Raman Mishra
Department of Mechanical Engineering,
BITS Pilani, Pilani Campus, Rajasthan
Email: raman.mishra@pilani.bits-pilani.ac.in