Birla Institute of Technology & Science, Pilani
Pilani Campus

JOB DESCRIPTION

About BITS, Pilani	**Birla Institute of Technology & Science, (BITS Pilani)** is an Institution declared as Deemed to be University under **Sec. 3** of the **UGC Act** in 1964 and is a renowned science and technology institute. It is in Pilani, Rajasthan, India. In addition to Pilani, BITS Pilani has campuses in Dubai, Goa, and Hyderabad. Work Integrated Learning Programmes (WILP) was established in 1979 and focuses on providing continuing education to working professionals across different sectors. WILP offers BSc, B. Tech, M. Tech, MSc, Diploma and Certificate programmes to working professionals.
Industry/Service	Higher Education
Post/Job Title	Visiting Faculty – Additive Manufacturing
Job Type	The tenure will be for two years at a time, with further extensions subject to satisfactory performance.
Reporting to	The Center Head – Smart Manufacturing Competency Center (Bengaluru)
Will also works very closely with	Faculty Members, Non-Academic Staff and WILP Students
No. of positions & Job Location	One position in BITS Pilani (WILP) Off Campus- **Smart Manufacturing Competency Centre (SMCC), Bengaluru**, and prepared to travel as required.
Principal Accountabilities & Responsibilities	**Domain/Areas of Expertise:** Additive Manufacturing and Design for Additive Manufacturing (DfAM) **Key Responsibilities:** • Deliver courses and workshops in additive manufacturing • Conduct hands-on demonstrations and lab sessions • Support development of AM-related laboratories and demonstrations • Mentor projects related to additive manufacturing and advanced manufacturing • Develop industry-oriented case studies and practical modules • Support collaborative research and industry engagement in AM technologies
Qualification and Personal Profile	**Mandatory Ph.D.** in Mechanical Engineering or related discipline with research focus in Additive Manufacturing, Advanced Materials, or Advanced Manufacturing Processes

Other Skill and Ability Requirements	**Strong fundamentals in:**
	• Additive Manufacturing technologies:
	  ○ FDM
	  ○ SLS
	  ○ SLA
	  ○ DED

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	• Materials science and mechanical engineering
	• Process–structure–property relationships
	• Heat transfer and solidification behavior
	• Polymers, metals, and composites used in AM
	Teaching & Mentoring:
	• Ability to teach undergraduate and postgraduate courses
	• Supervise student projects and theses
	• Translate complex AM concepts into practical learning experiences
	Design & Simulation Skills:
	• Proficiency in:
	  ○ CAD tools
	  ○ Finite Element Analysis (FEA)
	• Familiarity with:
	  ○ Design for Additive Manufacturing (DfAM)
	  ○ Topology optimization
	• Lattice structure design

Compensation	Rs 17 Lakhs per annum commensurate with experience