



BITS Pilani
Dubai Campus

Career Opportunity
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BITS Pilani, Dubai Campus

Position Title	Post-doctoral Teaching & Research Fellow – 1 position
Appointment	Contract
Reporting to	Department Head
Department	Mechanical Engineering
Location	Dubai, UAE
About BITS-Pilani Dubai Campus (https://www.bits-pilani.ac.in/dubai/)	<p>BITS Pilani, Dubai Campus (BPDC) is the international campus of Birla Institute of Technology and Science, Pilani, India and is located at the Dubai International Academic City. Set up in the year 2000, it is among the pioneer institutions in Dubai, offering high-quality engineering, technology and management education. It attracts a diverse student population from UAE, other GCC countries, Asia, Africa and the Far East.</p> <p>BPDC is approved by the University Grants Commission and Ministry of Education, Government of India and by the Knowledge and Human Development Authority (KHDA), Government of Dubai.</p> <p>BITS Pilani has been granted the status of "Institute of Eminence" by MHRD, Government of India.</p> <p>BITS Pilani, Dubai Campus has been awarded a 5-star rating by the Knowledge and Human Development Authority (KHDA) in partnership with QS in 2022, recognizing our excellence in teaching, research, employability, and internationalization.</p> <p>BPDC offers B.E & M.E programs in engineering and allied disciplines along with BBA (Hons) & M.B.A in management studies. BPDC also offers Ph.D. programmes in all disciplines, with nearly 2500 students from over 20 countries. The dynamic and vibrant campus has modern infrastructure and teaching/research facilities that enables BPDC to deliver a well-rounded education in an international environment by highly qualified faculty. Smart classrooms, cutting edge laboratory facilities with the latest equipment, a 24/7 Creative Laboratory, and high-definition video conferencing facilities that connects BPDC with the campuses in India are some of the value-added features of BPDC. The Practice School, an internship program embedded in the course structure organized in partnership with over 300 companies, facilitates industry attachment for students in preparation for their future careers.</p>



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BPDC as a preferred workplace	BPDC provides an inclusive and supporting environment where you can grow your professional and personal self. BPDC is the place for you if you have the passion to make a difference.
Institutional Responsibilities and Accountabilities	<ul style="list-style-type: none"> • Act at all times in accordance with the BITS Pilani Dubai Campus's approved code of conduct. • Work in accordance with BPDC's policies and procedures including following safe work practices for self and others. • Proactively work towards achieving individual and team goals, whilst demonstrating BPDC's values and behaviour. • Actively engage in and embrace professional development opportunities. • Undertake any reasonable tasks as directed.
Job Purpose	The objective of the Postdoctoral Teaching and Research Fellow is to recruit recently graduated Ph.D candidates to support on-campus teaching, laboratory instructions, handling lab sessions, research initiatives, and institutional contributions. PDTRF intends to allow fresh Ph.D graduates to build their careers to compete effectively for high-caliber academic positions. PDTRF will be able to gain teaching experience and participate in professional development focused on undergraduate and post-graduate instruction and research.
Laboratory Courses	<p>Essential (one of the two)</p> <ul style="list-style-type: none"> • Robotics, Mechatronics, Autonomous Aerial and Mobile Robots • Aerodynamics and Aircraft design <p>Desirable (one or more)</p> <ul style="list-style-type: none"> • Thermo-fluids, Heat Transfer and Fluid Machinery • Engineering Design and Prototype, Manufacturing Process, • CAD and Materials Lab
Key Responsibility Areas	<p>The selected PDTRF are expected to work for the Teaching, Lab-based courses and Research Projects.</p> <p>Laboratory Operations</p> <ul style="list-style-type: none"> ▪ PDTRF will focus on major department lab courses and research themes. ▪ PDTRF will coordinate with faculty lab-in-charge and lab-instructors for laboratory session instruction, conducting practical sessions and evaluations. ▪ Oversee day-to-day operations of the laboratory, including equipment maintenance and inventory management. ▪ Course content development for new and advanced lab-based courses ▪ Develop laboratory, experimental design, and implement protocols to ensure safety, efficiency, and compliance with institutional and regulatory standards.



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	<ul style="list-style-type: none"> ▪ Coordinate with technical staff to maintain laboratory equipment and supplies. ▪ Monitor and optimize the use of shared resources and laboratory space. <p>Laboratory Instruction</p> <ul style="list-style-type: none"> ▪ Teach and support laboratory courses by delivering lectures, demonstrations, and hands-on guidance. ▪ Assist in the preparation and execution of laboratory experiments for undergraduate and/or graduate courses. ▪ Evaluate student performance through lab reports, quizzes, and practical assessments. ▪ Foster a collaborative and engaging learning environment. <p>Mentorship and Training</p> <ul style="list-style-type: none"> ▪ Mentor graduate and undergraduate students in laboratory techniques and research methodologies. ▪ Provide guidance on best practices for data collection, analysis, and reporting. ▪ Conduct training sessions for lab users on equipment operation and safety protocols. <p>Curriculum and Experiment Development</p> <ul style="list-style-type: none"> ▪ Collaborate with faculty to design, refine, and update laboratory exercises and course content. ▪ Integrate innovative tools and methods into the instructional program to enhance learning outcomes. <p>Research and Professional Development</p> <ul style="list-style-type: none"> ▪ Assist in the preparation of Research Grant proposals and progress reports. ▪ PDTRF are highly encouraged to conduct independent research. ▪ Prepare manuscripts for publication in high-impact peer-reviewed journals. ▪ Present findings at scientific conferences and seminars. ▪ Identify potential funding sources for future research. <p>Collaboration and Mentorship</p> <ul style="list-style-type: none"> ▪ Work collaboratively within the lab and with external collaborators. ▪ Provide guidance and mentorship to graduate and undergraduate students as needed.
<p>Competencies Required</p>	<p>They will regularly work with faculty members, contribute to lab course(s) delivery, lab operations, assist in student supervision in the lab in their respective departments, and conduct research. PDTRF will coordinate with faculty lab-in-charge and lab-instructors for laboratory session instruction, conduct practical sessions and evaluations. In addition, highly encouraged to conduct independent research, submit research proposals, and assist the department faculty in coordination with HoD in the ongoing research. PDTRF will focus on major department lab courses and research themes. The respective department will identify areas of scope for all the core laboratory-based courses.</p>



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	<p>PDTRF supports the lab instructions, operations, management, and evaluations, and in addition, they support strengthening the department research themes.</p> <ul style="list-style-type: none">● Well-versed in laboratory equipment for Mechanical Engineering● Familiar with software pertaining to Mechanical Engineering● Ability to learn and gain expertise in new experimental methods● Knowledge and training in safety practices used in laboratories● Knowledge in record keeping of inventories● Knowledge in MS excel, word, power point etc.● Ability to transcend into cross-cultural environment● Dynamic, approachable, reliable and able to work in a team● Excellent communication skills● Excellent organizational and time management skills● Commitment to continuous improvement and best practice principles
Educational qualification	<p>PhD in Robotics / Aerospace / Thermal / Design, or any allied discipline with demonstrated lab experience. Recently graduated Ph.D candidates in Mechanical Engineering can apply for PDTRF. PhD candidates should have successfully defended their Ph.D. Thesis. Postdoctoral Fellows with self-funded research projects are highly encouraged to apply.</p>
Experience	<p>Freshly graduated.</p> <p>1 - 2 years of laboratory teaching / teaching experience desirable.</p>
Remuneration & benefits	<p>As per the Institute Norms and regulations.</p>
Tenure of Postdoctoral Teaching and Research Fellow (PDTRF)	<p>PDTRF tenure will be for a limited period of 2 years (subject to annual review recommendations). The possibility of renewal is to a maximum total of 4 years based on continued exemplary performance.</p>
<p>Interested candidates meeting the above qualifications and experience must apply online at https://www.bits-pilani.ac.in/careers/non-academic?campus=dubai by 28th December 2025. Shortlisted candidates will be required to submit relevant documents. No enquiries will be entertained. Multiple applications will be summarily rejected.</p>	