



BITS Pilani
Dubai Campus

**Postdoctoral Teaching and Research Fellowship (PDTRF)
@BITS Pilani, Dubai Campus**

Position Title	Postdoctoral Teaching and Research Fellowship (PDTRF) -01 position
Appointment	Full-time appointment for 2 year term period
Reporting to	Department Head
Department	Department of General Sciences (Chemistry lab)
Location	Dubai, UAE
About BITS-Pilani Dubai Campus (https://www.bits-pilani.ac.in/dubai/)	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. BPDC is approved by the University Grants Commission and Ministry of Human Resource Development, Government of India and by the Knowledge and Human Development Authority (KHDA), Government of Dubai. BITS Pilani has been granted the status of "Institute of Eminence" by MHRD, Government of India. 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. BPDC offers B.E, BBA, M.E., M.B.A. and Ph.D. programmes in various engineering and allied 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.



BITS Pilani
Dubai Campus

Postdoctoral Teaching and Research Fellowship (PDTRF) @BITS Pilani, Dubai Campus

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	• 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	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. • 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. • Coordinate with technical staff to maintain laboratory equipment and supplies. • Monitor and optimize the use of shared resources and laboratory space.
Key Responsibility Areas	Laboratory Instruction ▪ Teach and support laboratory courses by delivering lectures, demonstrations, and hands-on guidance. ▪ Assist in the preparation and execution of laboratory experiments for undergraduate courses. ▪ Evaluate student performance through lab reports, quizzes, and practical assessments. ▪ Foster a collaborative and engaging learning environment.



BITS Pilani
Dubai Campus

Postdoctoral Teaching and Research Fellowship (PDTRF) @BITS Pilani, Dubai Campus

Mentorship and Training

- Mentor 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.

Curriculum and Experiment Development

- 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.

Research and Professional Development

- 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.

Collaboration and Mentorship

- Work collaboratively within the lab and with external collaborators.
- Provide guidance and mentorship to undergraduate students as needed.

Competencies Required

- For Chemistry lab:
- Well-versed in conducting undergraduate Chemistry laboratory experiments in Physical, Organic, Inorganic, Analytical, and Environmental Chemistry.
- Hands-on experience with laboratory instruments such as UV-Vis spectrophotometers, FTIR spectrometers, pH meters,



BITS Pilani
Dubai Campus

Postdoctoral Teaching and Research Fellowship (PDTRF) @BITS Pilani, Dubai Campus

- conductivity meters, centrifuges, analytical balances, and chromatographic systems.
- Familiarity with analytical and data-processing software such as Origin, ChemDraw, MATLAB, Python, or equivalent scientific tools.
 - Ability to prepare chemical reagents, standard solutions, and laboratory materials in accordance with established protocols.
 - Experience in instrument calibration, troubleshooting, maintenance, and laboratory inventory management.
 - Knowledge of laboratory safety procedures, chemical handling, waste disposal regulations, and risk assessment practices.
 - Ability to assist students in performing experiments, data analysis, report preparation, and interpretation of results.
 - Familiarity with Good Laboratory Practices (GLP) and quality assurance procedures.
 - Proficiency in MS Office applications (Excel, Word, PowerPoint) for documentation, record-keeping, and reporting.
 - Dynamic, approachable, reliable, and able to work effectively in a team-oriented environment.
 - Excellent communication, organizational, and time-management skills.
 - Commitment to continuous improvement, laboratory best practices, and maintaining a safe and productive learning environment.

Educational qualification

Recently graduated Ph.D. candidates in Chemistry

Experience

1-2 years of laboratory teaching experience

Remuneration & benefits

Commensurate with qualifications and experience

Interested candidates meeting the above qualifications and experience must apply online at <https://www.bits-pilani.ac.in/career/research-fellow-positions?campus=dubai> by **04.08.2026**. Shortlisted candidates will be required to submit relevant documents. No enquiries will be entertained. Multiple applications will be summarily rejected.