



BITS Pilani
Dubai Campus

JOB DESCRIPTION

Position Title	Graduate Research Assistant (GRA)-2 positions
Appointment	Full-time appointment for 3-year term period (March, 2025 to February, 2028)
Reporting to	Dr. Ananth Bharadwaj
Department	Electrical & Electronics 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 Human Resource Development, 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, BBA, M.E., M.B.A. and Ph.D. programmes in various engineering and allied disciplines, with nearly 1500 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.</p>



BITS Pilani
Dubai Campus

JOB DESCRIPTION

	The Practice School, an internship program embedded in the course structure organized in partnership with over 400 companies, facilitates industry attachment for students in preparation for their future careers.
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 behavior. • Actively engage in and embrace professional development opportunities. • Undertake any reasonable tasks as directed.
Job Purpose	Development of an Efficient, Misalignment-Tolerant Wireless Charging System to Extend the Range of Electric Drones.
Key Responsibility Areas	<p><u>GRA-1</u></p> <ul style="list-style-type: none"> • Design and development of High-Frequency Inverters. • Optimization and design of magnetic charging pads. • Establishment of the wireless charging prototype. • Assistance in overall management of the project. <p><u>GRA-2</u></p> <ul style="list-style-type: none"> • Development of the localization system. • Integrating the developed localization system with wireless charging infrastructure. • Assistance in overall management of the project.
Competencies Required	<p><u>GRA-1</u></p> <ul style="list-style-type: none"> • Prior experience in Electromagnetics/Near-Field Wireless Power Charging. • Prior experience in power electronics/High-Frequency Inverters and Rectifiers. <p><u>GRA-2</u></p> <ul style="list-style-type: none"> • Prior experience in Artificial Intelligence & Machine Learning. • Prior experience in Computer Vision/Localization Techniques.
Educational qualification	<ul style="list-style-type: none"> • M.Sc/M.E/M.Tech (or) equivalent • B.E/B.Tech candidates with significant experience in research or industry may also be considered.



BITS Pilani
Dubai Campus

JOB DESCRIPTION

Experience	0-1 years of experience in research with a Masters Degree. or 2-4 years of experience in research or industry in addition to Bachelor Degree
Remuneration & benefits	<ul style="list-style-type: none">• Fixed Stipend: AED 4,000 per month• Medical Insurance
Interested candidates meeting the above qualifications and experience must apply online at http://universe.bits-pilani.ac.in/dubai/careers by 24-02-2025 . Shortlisted candidates will be required to submit relevant documents. No enquiries will be entertained. Multiple applications will be summarily rejected.	