

RF / Simulation Engineer

Early-stage defence startup building phased-array High-Power Microwave (HPM) directed-energy systems for counter-drone applications.

Level: **Junior (0–3 yrs)** · Location: **Kolkata** · Type: **Full-time**

You'll run circuit- and system-level simulations of subsystems in our phased-array HPM system, working from architectures and specs defined by the senior team. A great fit for a recent graduate who's strong on fundamentals and wants hands-on R&D.

WHAT YOU'LL DO

- Build SPICE / PSpice models of our RF and pulsed-power building blocks and run parametric sweeps to check waveform shape, timing, and frequency content.
- Model array behaviour in MATLAB — beam steering, beamwidth, sidelobe levels — and validate it against analytical results.
- Set up Simulink models for system-level timing and control where useful.
- Document every model clearly — assumptions, inputs, results, plots — so it's reproducible by the team and our academic collaborators.
- Cross-check simulation outputs against bench measurements as hardware comes online and flag discrepancies.

WHAT YOU'LL NEED

- An EE degree with solid RF/microwave or pulsed-power fundamentals.
- Hands-on experience with SPICE-family tools and working MATLAB skills.
- Comfortable learning from technical papers and iterating quickly.

NICE TO HAVE

- Exposure to antenna arrays, transmission-line modelling, or high-voltage circuits — a bonus, not a requirement.

TO APPLY

Send a short note and your CV to yashovardhan@bamalwa.com
Or reach us at **+91 98310 90745**