



BUILD-A-TECH

INCUBATOR & WORKSPACE

Building the technology of tomorrow to solve the challenges of today



JOB DESCRIPTION FOR PRODUCT DESIGN ENGINEER (MECHANICAL)

Build-a-Tech Incubator & Workspace is a hardware technology accelerator with a mission to equip start-ups with cutting-edge resources and custom-tailored mentorship. Build-a-Tech helps entrepreneurs design, build and manufacture products that address everyday quality-of-life issues. You will have the opportunity to work in a world-class workspace, interface with tech innovators as well as collaborate on a global scale. The details of the position are as follows.

BASIC JOB FUNCTION:

Lead advanced manufacturing processes, develop custom solutions, and optimise the use of cutting-edge digital fabrication technologies. The ideal candidate will have substantial technical expertise, a strong background in engineering and materials science, and proven experience in managing complex projects within a fabrication or prototyping environment.

CLASSIFICATION: Technical Personnel

JOB TYPE: On-Site / Full-time

WORK HOURS: Monday to Friday | 09:00 AM to 05:00 PM
Saturday | 09:00 AM to 05:00 PM (1 per month)

SALARY: ₦100,000 to ₦150,000 Monthly
determined by relevant years of experience, qualifications and education

LOCATION: Uyo, Akwa Ibom

DUTIES & RESPONSIBILITIES:

1. Design, develop, and execute advanced digital fabrication projects from concept to completion.
2. Utilise 3D modelling, CAD, and CAM tools to create detailed designs and machine-ready files.
3. Evaluate and implement new fabrication technologies and methodologies to improve efficiency and quality.

4. Oversee the operation, programming, and optimisation of digital fabrication tools, including 3D printers, CNC machines, and laser cutters.
5. Lead projects requiring interdisciplinary collaboration, integrating electronics, software, and mechanical systems.
6. Conduct material testing and analysis to ensure optimal performance for each application.
7. Develop and maintain documentation, including technical specifications, testing results, and procedural guides.
8. Mentor and provide technical support to the Digital Fabrication Technician and other team members.
9. Collaborate with clients or internal stakeholders to translate requirements into feasible technical solutions.
10. Ensure compliance with safety standards and industry regulations within the fabrication lab.

REQUIRED SKILLS:

- Ability to instruct students and other lab users
- Excellent written and oral communication
- Excellent presentation skills
- Proficient in the use of PC/Mac, Google Workspace and business communication channels
- Excellent organisational skills with strong attention to detail
- Ability to multitask, prioritise, and manage time effectively
- Familiarity with robotics, automation, and control systems.
- Knowledge of additive manufacturing trends and innovations.

Optional:

- Knowledge of or ability to learn how to operate and maintain related equipment in the lab, such as 3D printers, CNC Machines, oscilloscopes, multimeters, power supplies, frequency generators, and spectrum/network analysers, among others
- Knowledge of how to perform tests on systems and equipment to ensure that every component is working properly

EDUCATION:

Experience and proficiency in the above Duties & Responsibilities and Required Skills sections will be weighed above any educational qualifications. Applicants not possessing the above-listed degrees should not be discouraged from applying.

It is preferred that applicants possess a **Bachelor's Degree in Engineering, Design, Architecture, Information Systems, Environmental Science, Physics** or a related field.

TO APPLY:

Interested candidates fill out the Employment Application Form @ bat.ng/careers/apply and select the **DIGITAL FABRICATION ENGINEER** position.

Applications close on **9th May 2025** at 11:59 PM.

Additional enquiries should be directed to careers@buildatech.ng