ChatGPT

Computer Science

Graduates of Computer Science are in high demand in Nigeria's growing tech-driven economy. Common job roles include **Software Developer/Engineer**, **Data Scientist/Analyst**, **Cybersecurity Analyst**, **Database Administrator**, and **IT Project Manager**. Key industries for these roles are FinTech and Banking, Telecommunications, E-commerce/Retail, Government/Parastatals, and ICT companies [1] [2].

- **Software Developer/Engineer** (Tech firms, FinTech, Telecoms, eCommerce) – *Top Skills*: Programming (e.g. JavaScript, Python, Java) [3], software design, version control (Git), agile methodologies, problem-solving, debugging, communication, system architecture, RESTful APIs, cloud platforms (AWS/Azure).
- **Data Scientist/Analyst** (Banking, Tech, Government, Consulting) – *Top Skills*: Data analysis & visualization (SQL, Excel, Power BI), Python/R programming, statistics/machine learning (regression, clustering) [4] [5], big data tools, critical thinking, communication, data cleaning, database querying, dashboarding.
- **Cybersecurity Analyst** (Banks/FinTech, Telecoms, Government, Security Firms) – *Top Skills*: Network/security fundamentals (firewalls, IDS/IPS), penetration testing, vulnerability assessment, incident response, security tools (SIEM, anti-malware), cryptography basics, risk analysis, programming/scripting (Python), compliance knowledge (ISO27001/NIST) [6], attention to detail, problem-solving.
- **Database Administrator** (Finance, Telecom, Insurance, Tech) – *Top Skills*: Database design and optimization (MySQL, Oracle, SQL Server), SQL query tuning, backup/recovery, data modeling, knowledge of transactions/concurrency, Linux/Windows administration, shell scripting, cloud databases (AWS RDS/Azure SQL), troubleshooting, security (encryption, access control).
- **IT Project Manager** (Technology firms, Consulting, Oil&Gas, Manufacturing) – *Top Skills*: Project planning (PMBOK/PRINCE2/Agile Scrum), stakeholder management, risk management, budgeting, scheduling (MS Project/JIRA), leadership, communication, problem-solving, documentation (MS Office), quality assurance, team coordination.

Software Engineering

Software Engineering graduates often fill roles very similar to Computer Science, focusing on large-scale systems and process. Five key roles are **Software Engineer**, **Systems Analyst**, **DevOps Engineer**, **Quality Assurance Engineer**, and **Technical Architect**. Industries include Software/Tech companies, FinTech and Banks, Telecommunications, Manufacturing (embedded software), and E-commerce [1].

- **Software Engineer/Developer** (FinTech, Tech, Telecom, E-commerce) – *Skills*: Object-oriented programming (Java, C#, Python) [3], software architecture, version control, CI/CD pipelines, REST APIs, cloud services (AWS/GCP/Azure), testing (unit/integration), data structures/algorithms, agile development, problem-solving.
- **Systems Analyst** (IT Consultancies, Banks, Insurance) – *Skills*: Systems design, requirements gathering, UML/flowcharting, business process modeling, SQL/database knowledge, integration/APIs, user interface design, communication, technical documentation, testing coordination.
- **DevOps Engineer** (Technology firms, Telecoms, Oil&Gas IT) – *Skills*: Linux administration, CI/CD tools (Jenkins/GitLab), containerization (Docker, Kubernetes), cloud platforms, scripting (Bash/Python), configuration management (Ansible/Chef), monitoring (Prometheus/Grafana), security basics, networking, teamwork.
- **Quality Assurance (QA) Engineer** (Software companies, FinTech, Telecom) – *Skills*: Software testing

methodologies (unit, integration, regression), test automation tools (Selenium, JUnit), scripting (Python/JavaScript), bug tracking (JIRA), attention to detail, critical thinking, communication, Agile/Scrum, documentation, continuous improvement.
- **Technical Architect** (Large IT/Finance firms, Consultancies) – *Skills*: System design and architecture, multiple programming languages, database systems, scalability strategies, security design, cloud architecture (AWS/Azure/GCP), microservices and API design, performance tuning, leadership, communication, strategic planning.

Information Technology (IT)

Information Technology degrees prepare students for broad IT roles. Five common roles are **IT Support Specialist**, **Network Administrator**, **Systems Administrator**, **IT Consultant**, and **Business Analyst**. Key industries include Banks/Finance, Government/Utilities, Education, Telecoms, and Corporate Businesses [6] [7].
- **IT Support/Help Desk Specialist** (All industries) – *Skills*: Troubleshooting (hardware/software), OS installation (Windows/Linux), networking basics (TCP/IP), ticketing systems, customer service, communication, active directory/admin tools, software deployment, problem-solving, time management.
- **Network Administrator/Engineer** (Telecom, Banks, Government) – *Skills*: Network design and management (Cisco, Juniper), routing/switching (OSPF, VLANs), wireless, firewall configuration, network security, VPNs, monitoring tools, Linux/Windows Server, troubleshooting, documentation.
- **Systems Administrator** (Corporate IT, Datacenters, Education) – *Skills*: Windows/Linux server administration, virtualization (VMware), cloud services (AWS EC2/Azure VMs), Active Directory, storage and backup management, monitoring (Nagios), scripting (PowerShell/Bash), security patches/upgrades, troubleshooting, system hardening.
- **IT Consultant/Business Solutions Analyst** (Consulting firms, Enterprises) – *Skills*: IT strategy, business analysis, requirements gathering, system integration knowledge, cybersecurity awareness, communication, project management, stakeholder management, presentation skills, report writing, knowledge of ERP/CRM systems.
- **Business Analyst (IT)** (Finance, Insurance, Retail) – *Skills*: Process mapping, requirements analysis, SQL for data queries, knowledge of business process, documentation (UML, user stories), communication, data analytics, problem-solving, familiarity with finance/ERP applications, stakeholder liaison.

Law

Law graduates typically become **Lawyers/Legal Officers**, **Tax Consultants**, **Compliance Officers**, **Legal Advisers**, and **Corporate Counsel**. They work in Law Firms, Corporate Legal Departments (Banks, Oil & Gas, Tech), Government Agencies, Insurance Companies (loss adjusting), and Publishing/Media for legal content [8] [9].
- **Lawyer/Legal Officer (Corporate Lawyer)** (Law firms, Banks, Oil/Gas, Tech) – *Skills*: Legal research, drafting (contracts, briefs), negotiation, court advocacy, understanding of corporate/contract/tax law, communication, analytic reasoning, attention to detail, conflict resolution, ethics.
- **Tax Consultant/Advisor** (Accounting firms, Banks, Govt tax authorities) – *Skills*: Tax law and regulations, accounting fundamentals, financial analysis, problem-solving, persuasive communication [10], detail orientation, strategic tax planning, Microsoft Excel, continuous learning of tax updates.
- **Compliance Officer** (Banks, Corporate, Insurance, Telecom) – *Skills*: Regulatory knowledge (CBN/SEC

guidelines), risk assessment, policy development, reporting, strong knowledge of ordinances [11], attention to detail, integrity, communication, analytical thinking, document review.
- **Legal Publisher/Content Writer** (Media companies, Legal publishers) – *Skills*: Legal writing and editing, research, clarity in communication, comprehension of case law, efficiency, ability to explain legal concepts to lay audience [12], creativity, attention to detail, referencing, computer literacy.
- **Loss Adjuster (Insurance)** – *Skills*: Insurance law, analytical and investigative ability, negotiation skills [13], excellent communication, financial literacy (to assess claims), attention to detail, empathy, problem-solving, compliance knowledge.

Economics

Economics graduates find roles as **Financial Managers**, **Financial Analysts**, **Economists**, **Actuaries**, and **Management Consultants**. These jobs span Finance & Banking, Investment Firms, Government/Regulatory Agencies, Consulting Firms, Insurance (actuarial), and NGOs [14] [15].
- **Financial Manager** (Banks, Corporations, Government) – *Skills*: Financial planning & budgeting, financial reporting, strategic planning, risk management, investment analysis, leadership, communication, use of finance software, knowledge of finance/accounting regulations [15].
- **Financial Analyst** (Investment firms, Banks, Corporates) – *Skills*: Financial modeling and forecasting, data analysis, Excel (VBA/PowerPivot), understanding of financial markets, statistical analysis, critical thinking, communication, trend analysis, report writing, knowledge of CFA concepts [16].
- **Economist/Policy Analyst** (Government, Central Bank, Think-tanks) – *Skills*: Econometric analysis, macro/microeconomic theory, data/statistical analysis, use of software (Stata/R), report writing, policy evaluation, critical thinking, research methods, forecasting, communication.
- **Actuary** (Insurance companies, Pension funds, Banks) – *Skills*: Probability and statistics, financial mathematics, actuarial modeling, programming (Python/R) [17], problem-solving, communication, risk assessment, knowledge of actuarial software (Excel macros, SQL), attention to detail.
- **Management Consultant** (Consulting firms, Corporates) – *Skills*: Business process analysis, SWOT and financial analysis (as noted in consultancy roles) [18], problem-solving, strategic thinking, communication, stakeholder management, presentation, teamwork, project management, Excel modeling, industry research.

Business Administration

Business Administration (BBA) graduates often become **Operations Managers**, **Human Resources (HR) Managers**, **Sales/Business Development Managers**, **Project Managers**, and **Management Consultants**. Industries span virtually all sectors – especially Finance, Manufacturing, Telecoms, Energy, Retail, and Services. Key industries include Banking, Telecom, FMCG, Energy, and Government [18].
- **Operations Manager** (Manufacturing, Retail, Telecoms) – *Skills*: Operations planning, supply chain management, process improvement (Lean/Six Sigma), budgeting, leadership, communication, problem-solving, inventory control, ERP systems (SAP/Oracle), data analysis.
- **HR Manager/Officer** (All industries) – *Skills*: Recruitment & selection, labor laws (Nigerian employment law), HR policy development, payroll and benefits administration, performance management, training & development, conflict resolution, communication, HRIS systems.
- **Sales/Business Development Manager** (FMCG, Tech, Pharma) – *Skills*: Sales forecasting, client relationship management (CRM software), negotiation, market analysis, communication, strategic planning,

product knowledge, network building, presentation skills, target-driven mindset.
- **Project Manager** (Construction, IT, Oil&Gas) – *Skills*: Project planning (PM tools like MS Project), risk management, budgeting, scheduling, Agile/Scrum methods, stakeholder communication, leadership, quality control, procurement management, documentation.
- **Management Consultant** (Consulting firms, Multinationals) – *Skills*: Business analysis, process optimization (SWOT, financial analysis) [18], problem-solving, excellent communication, presentation, industry research, change management, client relations, strategic planning, teamwork.

Accounting

Accounting graduates commonly work as **Accountants/Controllers**, **Auditors (Internal or External)**, **Financial Analysts**, **Forensic Accountants**, and **Chief Financial Officers (CFOs)**. They are employed in Banking & Finance, Government Agencies, Accounting/Audit Firms, Consulting, and Growing Tech companies [7] [19].
- **Accountant/Controller** (Banks, Corporates, Government) – *Skills*: Financial reporting (IFRS/GAAP), bookkeeping, use of accounting software (QuickBooks, SAP FI), Excel, attention to detail, tax compliance, regulatory reporting, analytical skills, ethics, time management [20].
- **Auditor (Internal/External)** (Audit firms, Corporations) – *Skills*: Audit planning, risk assessment, documentation (working papers), knowledge of audit standards, GAAP, fraud detection, analytical skills, communication, integrity, Excel, statistical sampling.
- **Financial Analyst (Accounting Focus)** (Corporate, Banks, Government) – *Skills*: Financial modeling, data analysis, variance analysis, budgeting, forecasting, Excel (pivot tables, VBA), accounting knowledge, attention to detail, communication, strategic thinking [21].
- **Forensic Accountant** (Finance/Insurance, Law Enforcement) – *Skills*: Investigative techniques, forensic analysis, knowledge of finance law, fraud detection, data mining (Excel/ACL), attention to detail, report writing, ethics, critical thinking, audit skills [22].
- **Chief Financial Officer (CFO)/Finance Manager** (Large Corporations, Multinationals) – *Skills*: Strategic financial management, corporate finance, leadership, cash flow management, investment analysis, budgeting, regulatory compliance, risk management, communication, high-level decision-making [23].

Finance

Finance graduates often pursue roles similar to those of Economics and Accounting majors. Common positions include **Investment Banker**, **Financial Analyst/Planner**, **Risk Manager**, **Credit Analyst**, and **Portfolio Manager**. Industries include Banking/Finance, Investment Firms, Insurance, and large Corporations [24] [25].
- **Investment Banker** (Banks, Investment companies) – *Skills*: Financial modeling, valuation, M&A analysis, Excel (advanced), PowerPoint, negotiation, regulatory knowledge, risk assessment, communication, research. [26]
- **Financial Analyst/Planner** (Banks, Corporations, Wealth management) – *Skills*: Financial forecasting, budgeting, Excel, financial statement analysis, market research, communication, certification knowledge (CFA topics), attention to detail, reporting, problem-solving.
- **Risk Manager** (Banks, Insurance, Energy) – *Skills*: Risk assessment methodologies, quantitative analysis, familiarity with Basel/IFRS standards, statistical modeling, Excel, risk reporting, regulatory compliance, communication, stress testing, data analysis.

- **Credit Analyst** (Banks, Microfinance, Leasing companies) – *Skills*: Credit risk analysis, financial statement evaluation, ratio analysis, Excel, judgment/decision-making, communication, market/industry research, loan structuring, attention to detail, compliance knowledge.
- **Portfolio/Investment Manager** (Asset management, Pension funds) – *Skills*: Investment strategy, equity/fixed income analysis, portfolio diversification, performance analysis, Excel/VBA, Bloomberg/Reuters, communication, compliance, risk management, client relations.

Marketing

Marketing graduates can work as **Marketing Managers**, **Digital Marketing Specialists**, **Advertising/Brand Managers**, **Market Research Analysts**, and **Public Relations (PR) Officers**. Key industries include Consumer Goods (FMCG), Retail, Media & Advertising, Tech (online businesses), and Financial Services [27] [28].
- **Marketing Manager** (FMCG, Retail, Tech, Finance) – *Skills*: Strategy development, campaign planning, brand management, market analysis, communication, leadership, budgeting, digital marketing channels, CRM, teamwork [27] [29].
- **Digital Marketing Specialist** (E-commerce, Tech, Media) – *Skills*: SEO/SEM, social media marketing, content creation, Google Analytics/Web Analytics, email marketing, PPC advertising, HTML/CMS basics, data analytics, creativity, adaptability [30] [31].
- **Advertising/Brand Manager** (Ad agencies, FMCG, Tech) – *Skills*: Creative strategy, consumer insight analysis, media planning, content creation (storytelling) [32], communication, project management, Adobe Creative Suite basics, negotiation, branding, market trend analysis.
- **Market Research Analyst** (Consulting firms, Corporates, Media) – *Skills*: Survey design, data collection and analysis, statistics (SPSS/STATA), report writing, data visualization, critical thinking, SQL or Excel, communication (presenting insights), attention to detail, trend analysis [28].
- **Public Relations (PR) Officer** (Corporate Communications, Media Houses, NGOs) – *Skills*: Media relations, press release writing, event planning, social media management, communication, brand messaging, networking, crisis communication, creativity, content creation.

Mass Communication

Mass Communication grads often work as **Journalists/Reporters**, **Editors**, **Public Relations Officers**, **Content Creators**, and **Media Planners**. Industries include Newspapers/TV/Radio, PR & Advertising Agencies, Digital Media, Corporate Communications (Banks, Oil & Gas), and Entertainment.
- **Journalist/Reporter** (Media houses: TV, Radio, Newspapers) – *Skills*: Investigative reporting, writing/editing, interviewing, researching, fact-checking, communication, ethics, multimedia skills (video/photo editing), social media, time management.
- **Editor (Copy/Content Editor)** (Publishing, Newspapers, Digital media) – *Skills*: Strong writing/editing (style guides), language proficiency, attention to detail, grammar expertise, fact-checking, CMS management, communication, teamwork, deadline management, SEO basics.
- **Public Relations (PR) Officer** (Corporate, NGOs, Government) – *Skills*: Media relations, press release writing, event coordination, strong communication (written/verbal), branding, networking, strategic thinking, social media management, crisis management, creativity.
- **Content Creator/Producer** (Digital media, Marketing agencies) – *Skills*: Content writing/video production, storytelling, SEO/content optimization, graphic design (canva/basic), social media platforms, creativity,

audience analysis, time management, basic editing (Adobe Premiere), collaboration.
- **Media Planner/Buyer** (Advertising agencies, Marketing) – *Skills*: Market research, audience analytics, media strategy, budgeting, negotiation, understanding of media channels (TV, digital, OOH), Excel for budgeting, communication, trend awareness, data analysis.

Political Science

Political Science graduates can work as **Policy Analysts**, **Political Risk Analysts**, **Diplomatic Officers (Foreign Service)**, **Campaign Managers**, and **Research Associates**. Industries include Government/Public Service, Political Parties/NGOs, Media/Think-Tanks, International Organizations, and Public Relations [33] [14].
- **Policy Analyst/Public Affairs Specialist** (Government ministries, Think-tanks, NGOs) – *Skills*: Policy research, data analysis (statistics), report writing, critical thinking, communication, stakeholder engagement, understanding of law/political processes, attention to detail, briefing skills.
- **Diplomatic Officer/Foreign Service** (Ministry of Foreign Affairs, Embassies) – *Skills*: International relations knowledge, foreign languages, communication, negotiation, cultural sensitivity, report writing, leadership, strategic analysis, protocol, networking.
- **Political Risk Analyst** (Multinationals, Banks, Consultancies) – *Skills*: Geopolitical analysis, risk assessment, data analysis, research (open source intelligence), writing reports, communication, critical thinking, familiarity with regional politics, forecasting, ethical judgment.
- **Campaign Manager/Coordinator** (Political parties, NGOs) – *Skills*: Strategic planning, voter research (surveys), communication, event management, social media, budgeting, team leadership, negotiation, problem-solving, persuasion.
- **Research Associate (Social Science)** (Universities, NGOs, Research institutes) – *Skills*: Qualitative/quantitative research, survey design, data analysis (SPSS/R), literature review, report writing, communication, critical thinking, grant writing, project management, ethics.

International Relations

International Relations (IR) graduates often become **Diplomats/Foreign Service Officers**, **Trade and Development Analysts**, **NGO Program Coordinators**, **International Business Consultants**, and **Intelligence Analysts**. They work in Foreign Affairs, International Organizations (UN, ECOWAS), NGOs/Think-Tanks, Multinational Corporations, and Security Agencies.
- **Diplomat/Foreign Service Officer** – *Skills*: Diplomatic negotiation, foreign languages, cultural diplomacy, international law/policies, communication, protocol, research, writing policy briefs, public speaking, adaptability.
- **International Trade/Development Analyst** – *Skills*: Trade policy analysis, economics basics, cross-cultural communication, statistical analysis, report writing, project management, negotiation, understanding of international regulations (WTO, tariffs), stakeholder engagement.
- **NGO Program Coordinator (International Development)** – *Skills*: Project planning/management (PM tools), grant writing, monitoring & evaluation, cross-cultural communication, budgeting, stakeholder liaison, report writing, research, problem-solving, leadership.
- **International Business Consultant** – *Skills*: Global market research, business strategy, cross-border regulations, financial analysis, communication, cultural awareness, language skills, presentation, negotiation, project management.

- **Intelligence/Foreign Analyst** – *Skills*: Geopolitical analysis, intelligence gathering, language skills, security studies, critical thinking, briefing writing, data analysis, understanding of international law, discretion, analytical software (GIS, data mining).

Medicine (MBBS)

Medical graduates primarily become **Doctors/Physicians** in various specialities (General Practice, Surgery, Pediatrics, etc.), **Medical Researchers**, **Public Health Officers**, **Clinical Educators**, and **Healthcare Administrators**. Key industries are Hospitals/Clinics, Public Health Agencies (Ministry of Health, WHO), Research Institutes, NGOs, and Pharmaceutical companies.

- **Medical Doctor (General Practitioner/Specialist)** – *Skills*: Clinical diagnosis and patient care, medical knowledge, surgery (if specialist), communication, empathy, teamwork, decision-making, medical ethics, problem-solving, continuous learning.
- **Medical Researcher/Scientist** – *Skills*: Research methodology, data analysis (biostatistics), laboratory techniques, scientific writing, grant writing, ethics approval processes, critical thinking, subject-matter expertise (e.g. virology, pharmacology), patience, collaboration.
- **Public Health Officer** – *Skills*: Epidemiology, biostatistics, program planning, community health education, policy development, surveillance, data analysis, communication, project management, leadership.
- **Clinical Educator (Medical Lecturer)** – *Skills*: Medical knowledge, teaching and presentation skills, curriculum development, research, communication, mentorship, writing (lectures, papers), staying updated (CME), organization.
- **Healthcare Administrator/Manager** – *Skills*: Hospital administration, healthcare policy, budgeting, leadership, communication, human resources in health, quality assurance, regulatory compliance, problem-solving, data management (health information systems).

Nursing

Nursing graduates typically become **Registered Nurses (RN)**, **Midwives**, **Clinical Nurse Specialists**, **Public Health Nurses**, and **Nurse Educators**. Industries include Hospitals/Clinics, Maternal & Child Health, Community Health Centers, NGOs (health outreach), and Rehabilitation Centers.

- **Registered Nurse (Clinical)** – *Skills*: Patient care, clinical assessment, medication administration, IV therapy, infection control, communication (with patients/teams), empathy, teamwork, organization (patient charts), basic life support (BLS/CPR), medical equipment operation.
- **Midwife** – *Skills*: Obstetric and neonatal care, delivery procedures, prenatal and postnatal care, patient communication, empathy, risk assessment, emergency response, breastfeeding support, antenatal education, cultural sensitivity.
- **Clinical Nurse Specialist (e.g. ICU, Oncology)** – *Skills*: Specialized clinical procedures (ventilator care, chemotherapy prep), critical thinking, patient monitoring, advanced life support (ACLS), evidence-based practice, mentoring RNs, communication, teamwork, documentation.
- **Public Health Nurse** – *Skills*: Community health assessment, health promotion/education, epidemiology basics, program planning, immunization campaigns, data collection (surveys), communication, cultural competence, networking with agencies, public speaking.
- **Nurse Educator** – *Skills*: Teaching (curriculum design, lectures), clinical skills demonstration, mentorship, communication, evaluation (OSCEs), leadership, evidence-based nursing, organizational skills, academic writing, continuous professional development.

Pharmacy

Pharmacy graduates most often work as **Pharmacists** in hospitals or community pharmacies, **Clinical Research Coordinators**, **Medical Representatives (Pharma Sales)**, **Quality Assurance/Control Specialists**, and **Regulatory Affairs Officers**. Industries include Hospitals, Retail Pharmacies, Pharmaceutical Companies, Research labs, and Regulatory Agencies (NAFDAC).

- **Pharmacist (Hospital/Community)** – *Skills*: Pharmacology, dispensing and compounding medications, patient counseling, medication therapy management, drug interaction checks, communication, attention to detail, basic medical knowledge, record-keeping, legal compliance.
- **Clinical Research Coordinator** – *Skills*: Clinical trial management, GCP guidelines, data collection, protocol understanding, communication, coordination with investigators, documentation, attention to detail, regulatory compliance (ethics), teamwork.
- **Medical Sales/Pharma Rep** – *Skills*: Product knowledge, sales strategy, communication/presentation, negotiation, relationship-building with healthcare providers, market analysis, regulatory knowledge, time management, Microsoft Office (for reporting), persuasion.
- **Quality Assurance/Control Specialist** – *Skills*: Quality systems (ISO standards), laboratory techniques (HPLC, spectrometry), documentation, validation and compliance, attention to detail, problem-solving, regulatory knowledge (FDA/NAFDAC), statistical process control, teamwork, continuous improvement.
- **Regulatory Affairs Officer** – *Skills*: Regulatory guidelines (NAFDAC, NDLEA), dossier preparation, labeling requirements, communication with authorities, attention to detail, understanding of pharmacovigilance, project coordination, scientific writing, compliance monitoring, updates on health laws.

Civil Engineering

Civil Engineering graduates work as **Site Engineers/Project Managers**, **Structural Engineers**, **Transportation/Traffic Engineers**, **Geotechnical Engineers**, and **Quantity Surveyors** (though QS is often separate, civil can fit). Key industries: Construction, Infrastructure (roads, bridges), Oil & Gas (structural and pipeline projects), Water Resources, and Government agencies.

- **Site/Project Engineer** (Construction firms, Oil & Gas, Infrastructure) – *Skills*: Project planning, construction management, AutoCAD/Civil3D, surveying basics, materials testing, CAD/BIM, leadership, problem-solving, communication, health & safety compliance.
- **Structural Engineer** (Construction, Consulting) – *Skills*: Structural analysis/design (SAP2000, ETABS), steel/concrete design codes, math (finite element), AutoCAD, attention to detail, project management, report writing, teamwork, problem solving, knowledge of building regulations.
- **Transportation/Highway Engineer** (Federal/State agencies, Consultancies) – *Skills*: Traffic flow analysis, road design (AutoCAD Civil3D, ArcGIS), understanding of geometric design standards, project planning, surveying, data analysis, environmental impact assessment, communication, teamwork, budgeting.
- **Geotechnical Engineer** (Construction, Oil&Gas, Rail) – *Skills*: Soil mechanics, foundation design, field/lab testing (soil sampling), geotechnical software (PLAXIS), risk assessment (slope stability), report writing, AutoCAD, attention to detail, critical thinking, communication.
- **Water Resources Engineer** (Consulting, Government – e.g. water boards) – *Skills*: Hydrology and hydraulics, CAD (HEC-RAS, SWMM), flood analysis, irrigation design, reservoir modeling, project management, GIS, environmental regulations, teamwork, communication.

Mechanical Engineering

Mechanical Engineering grads serve as **Mechanical Design Engineers**, **Maintenance Engineers**, **Manufacturing Engineers**, **Project Engineers (Mechanical)**, and **HVAC/R Engineers**. Industries: Manufacturing (FMCG, Automobiles), Oil & Gas (maintenance of equipment), Power/Energy, Construction (HVAC), and Aeronautics.

- **Mechanical Design Engineer** – *Skills*: CAD software (SolidWorks, AutoCAD, Inventor), 3D modeling, Kinematics and dynamics, materials engineering, product development, engineering calculations, FEA basics (ANSYS), attention to detail, creativity, teamwork.
- **Maintenance/Plant Engineer** – *Skills*: Predictive/preventive maintenance planning, troubleshooting mechanical systems, knowledge of pumps/engines/rotating equipment, instrumentation basics, SAP/EAM systems, health & safety, problem-solving, equipment inspection, communication, reliability engineering.
- **Manufacturing/Production Engineer** – *Skills*: Process engineering, CNC machining and automation, lean manufacturing, quality control (Six Sigma), production planning (MRP/ERP), material flow, AutoCAD, problem-solving, teamwork, communication.
- **HVAC/R Engineer** (Construction, Facilities) – *Skills*: HVAC system design (size ductwork, BTU calculations), refrigeration cycles, AutoCAD/Revit MEP, thermodynamics, AutoDesk tools, energy efficiency, project management, compliance (building codes), problem-solving, attention to detail.
- **Project Engineer (Mechanical)** – *Skills*: Project planning/scheduling, cost estimating, mechanical system design, AutoCAD/3D software, vendor coordination, material procurement, leadership, budgeting, troubleshooting, MS Office (Excel/Project), effective communication.

Electrical Engineering

Electrical Engineering graduates become **Electrical Power Engineers**, **Control Systems Engineers**, **Instrumentation Engineers**, **Electronics Design Engineers**, and **Maintenance/Field Engineers**. Industries: Power generation & distribution (PHCN, NERC), Oil & Gas (electrical & control), Manufacturing (electronics), Telecom, and Renewable Energy.

- **Electrical Power Engineer** – *Skills*: Power system analysis, distribution design, protection relays, SCADA, AutoCAD Electrical, MATLAB/ETAP, understanding of grid codes, substations, load flow studies, problem-solving, communication.
- **Control/Automation Engineer** – *Skills*: PLC programming (Siemens, Allen-Bradley), SCADA/DCS, HMI design, sensors/actuators knowledge, troubleshooting, ladder logic, industrial networking, instrumentation, AutoCAD, teamwork, safety protocols.
- **Instrumentation Engineer** – *Skills*: Process instrumentation, calibration, signal conditioning, control loops (PID tuning), HART protocol, instrument specification, pneumatic/electronic devices, documentation, problem solving, communication, attention to detail.
- **Electronics Design Engineer** – *Skills*: Circuit design (analog/digital), PCB design (Eagle/Altium), microcontrollers (Arduino/ARM), signal processing, simulation (SPICE), soldering/prototyping, CAD, problem-solving, attention to detail, teamwork.
- **Electrical Maintenance/Field Engineer** – *Skills*: Troubleshooting electrical equipment (motors, drives), preventative maintenance, electrical safety, AutoCAD reading, multimeter/VNA usage, system diagnostics, communication, ERP systems, reliability engineering, teamwork.

Architecture

Architecture graduates typically work as **Architects/Building Designers**, **Urban/Regional Planners**, **Interior Designers**, **Construction Project Managers**, and **Landscape Architects**. Industries: Architecture/ Design firms, Real Estate/Property Development, Construction, Government (Town Planning), and Infrastructure (urban projects).

- **Architect/Designer** – *Skills*: Architectural design, AutoCAD/Revit/BIM, 3D modeling (SketchUp, Rhino), building codes/regulations (Nigerian Urban and Regional Planning Laws), construction materials knowledge, creativity, drawing/rendering, project management, communication, teamwork.
- **Urban/Regional Planner** – *Skills*: Spatial planning, GIS, land use planning, zoning laws, policy analysis, demographic analysis, public consultation, AutoCAD, presentation, sustainable development knowledge, statistical analysis, communication.
- **Interior Designer** – *Skills*: Space planning, CAD (AutoCAD, 3ds Max), knowledge of materials/finishes, color theory, furniture design, lighting design, creativity, client communication, budgeting, project coordination, building services basics.
- **Construction Project Manager (Architecture)** – *Skills*: Construction management, scheduling (MS Project), cost estimation, contract administration, site inspection, knowledge of architectural drawings, leadership, negotiation, quality control, Health & Safety compliance.
- **Landscape Architect/Designer** – *Skills*: Site planning, landscape design, horticulture basics, CAD (AutoCAD Landscape), environmental sustainability, grading/drainage design, material knowledge, communication, GIS, creativity, project management.

Psychology

Psychology graduates can become **Counselors/Psychotherapists**, **Clinical Psychologists**, **Human Resources Officers**, **Market Research Analysts**, and **Educational Psychologists**. Key sectors: Healthcare (mental health clinics, hospitals), Education (schools, NGOs), Corporate HR, Social Services (rehab centers, NGOs), and Research.

- **Counselor/Psychotherapist** – *Skills*: Counseling techniques, active listening, empathy, psychological assessment, ethical practice, communication, critical thinking, record-keeping, confidentiality, basic knowledge of DSM/ICD disorders.
- **Clinical Psychologist** (with further qualifications) – *Skills*: Psychological testing, diagnosis, therapy modalities (CBT, psychotherapy), empathy, research methods, data analysis (SPSS), ethics, communication, crisis intervention, teamwork.
- **HR Officer (Psychology)** – *Skills*: Employee relations, recruitment/interviewing, training & development, conflict resolution, performance appraisal, organizational behavior, communication, empathy, MS Office, basic labor laws.
- **Market Research Analyst** (Media/Advertising) – *Skills*: Survey design, statistical analysis, data interpretation, SPSS/R, report writing, communication, knowledge of consumer behavior, attention to detail, presentation skills.
- **Educational Psychologist** (Schools, NGOs) – *Skills*: Learning assessment, developmental psychology, counseling, program development (IEPs), communication, observation, report writing, research methods, patience, teamwork.

Sociology

Sociology graduates often work as **Social Researchers**, **Community Development Officers**, **NGO Program Managers**, **Policy Analysts**, and **Social Workers** (with additional training). Industries: NGOs/Non-profits, Government (social welfare agencies), Research/Think-tanks, Educational Institutions, and Corporate CSR departments.

- **Social Researcher** – *Skills*: Qualitative & quantitative research (surveys, interviews, focus groups), data analysis (SPSS), report writing, critical thinking, communication, sociological theory, statistical methods, ethnographic skills, organization.
- **Community Development Officer** – *Skills*: Program planning, grant writing, community engagement, communication, project management, social impact assessment, networking, cultural sensitivity, advocacy, monitoring & evaluation.
- **NGO Program Manager** – *Skills*: Strategic planning, project management (timelines/budgets), stakeholder coordination, monitoring & evaluation, grant management, communication, leadership, cultural competence, report writing, adaptability.
- **Policy Analyst (Social Affairs)** – *Skills*: Policy research, statistical analysis, writing policy briefs, stakeholder interviews, critical analysis, communication, knowledge of social policies (education, health), presentation, data interpretation, public speaking.
- **Social Worker** (with qualification) – *Skills*: Counseling, case management, empathy, crisis intervention, community outreach, ethics, communication, problem-solving, patience, understanding of social support systems.

English Language

English majors often pursue careers as **Editors/Content Writers**, **Teachers/Educators**, **Public Relations Officers**, **Copywriters**, and **Speech/Communications Specialists**. Industries include Media & Publishing, Education (schools, tutoring), Corporate Communications, Advertising/PR Agencies, and NGOs.

- **Editor/Content Writer** – *Skills*: Writing and editing (AP/Chicago style), grammar and vocabulary mastery, research, creativity, SEO basics (for digital), communication, attention to detail, time management, content management systems, teamwork.
- **Teacher/Lecturer (English)** – *Skills*: Lesson planning, curriculum development, classroom management, communication, public speaking, assessment design, creativity, cultural sensitivity, patience, mentorship.
- **Public Relations/Communications Specialist** – *Skills*: Corporate communications, media relations, press release writing, storytelling, social media management, crisis communication, copywriting, networking, presentation, organizational skills.
- **Copywriter (Advertising/Marketing)** – *Skills*: Creative writing, brand voice development, storytelling, SEO and keyword usage, marketing fundamentals, client communication, brainstorming, brevity, adaptability, time management.
- **Speech/Communications Coach** – *Skills*: Public speaking training, presentation skills, voice modulation, listening, confidence-building techniques, communication theory, interpersonal skills, patience, feedback, cultural awareness.

Mathematics

Mathematics graduates often become **Statisticians/Data Analysts**, **Actuaries (with certification)**, **Quantitative Analysts**, **Teachers/Lecturers**, and **Operations Researchers**. Industries: Finance/Banking, Insurance, Tech/Software (algorithms), Education, Government Research, and Consultancies.

- **Data Analyst/Statistician** – *Skills*: Statistical analysis, programming (R/Python), SQL, data visualization (Tableau/PowerBI), data cleaning, probability theory, problem-solving, communication, modeling, Excel.
- **Actuary** – *Skills*: Probability and statistics, financial mathematics, actuarial modeling, programming (VBA/Python), problem-solving, communication, risk analysis, spreadsheet modeling, certification (SOA/ICAS exams prep).
- **Quantitative Analyst** (Finance) – *Skills*: Mathematical modeling, programming (Python/Matlab), data analysis, machine learning basics, finance theory, risk modeling, communication, database querying, stochastic processes, attention to detail.
- **Math Teacher/Lecturer** – *Skills*: Mathematical knowledge, teaching skills, lesson planning, communication, patience, curriculum development, assessment design, tutoring, problem-solving, continuous learning.
- **Operations Research Analyst** – *Skills*: Optimization techniques (linear programming), simulation modeling, programming (Python/Excel Solver), statistics, critical thinking, problem formulation, communication, data analysis, decision theory, software tools (CPLEX, R).

Physics

Physics graduates can work as **Research Scientists**, **Electronics Engineers**, **Medical Physicists**, **Lab Technicians**, and **Educators**. Industries include Education/Academia, Research Labs, Healthcare (imaging/radiology), Energy (renewables), and Manufacturing (semiconductors).

- **Research Scientist** – *Skills*: Experimental design, data analysis, familiarity with lab equipment (e.g. spectrometers), programming (Python/Matlab), scientific writing, problem-solving, critical thinking, teamwork, optics/electronics knowledge (depending on field), Matlab.
- **Electronics/Instrumentation Engineer** – *Skills*: Analog/digital electronics, circuit design (Multisim/Altium), signal processing, embedded systems (Arduino/Pi), soldering/prototyping, troubleshooting, microcontrollers, teamwork, PCB design, communication.
- **Medical Physicist** – *Skills*: Radiation physics, imaging equipment operation (MRI/X-ray/CT), dosimetry, MATLAB/Python, understanding of hospital protocols, attention to detail, certification processes, communication, safety standards.
- **Laboratory Technician** – *Skills*: Lab equipment operation (particle counters, vacuum systems), measurement and instrumentation, calibration, data recording, safety protocols, problem-solving, attention to detail, equipment maintenance, teamwork, basic electronics.
- **Physics Educator (Teacher/Lecturer)** – *Skills*: Physics knowledge, teaching skills, experiment demonstration, communication, curriculum design, problem-solving, patience, assessment, technology use (simulations), mentorship.

Chemistry

Chemistry graduates find roles as **Chemists (Analytical/Process)**, **Quality Control/Assurance Chemists**, **Formulation Scientists**, **Laboratory Managers**, and **Environmental Health Officers**. Industries include

Pharmaceuticals, Petrochemicals, Food & Beverages, Cosmetics, and Environmental Agencies.
- **Analytical/Research Chemist** – *Skills*: Laboratory techniques (titration, chromatography, spectroscopy), data analysis, chemical safety, instrumentation (GC-MS/HPLC), report writing, problem-solving, attention to detail, teamwork, computer data logging, method development.
- **Quality Control (QC) Chemist** – *Skills*: Standard operating procedures, analytical testing (HPLC, GC), calibration, documentation (ISO/GMP standards), attention to detail, troubleshooting, Microsoft Office (for reports), communication, regulatory compliance, sampling.
- **Formulation/Product Chemist** – *Skills*: Knowledge of formulations (drugs, cosmetics, polymers), scaling-up processes, stability testing, experimentation, CAD for process equipment, creativity, teamwork, documentation, regulatory guidelines, project management basics.
- **Laboratory Manager** – *Skills*: Lab management, safety compliance (laboratory standards), inventory control (chemical stocks), team leadership, budgeting, quality systems (ISO17025), troubleshooting equipment, scheduling, communication, training staff.
- **Environmental Chemist/Safety Officer** – *Skills*: Environmental sampling, pollution analysis, waste management regulations, safety protocols (hazardous materials), spectroscopy/chemical analysis, report writing, communication, GIS basics (for site mapping), attention to detail, project coordination.

Biology

Biology graduates often work as **Biological Scientists/Researchers**, **Microbiologists/Biotechnologists**, **Medical Laboratory Scientists**, **Environmental Conservationists**, and **Science Educators**. Industries: Healthcare (labs, pharma), Research Institutes, Agrochemical companies, Environmental NGOs, and Education.
- **Research Biologist** – *Skills*: Experimental design, cell/molecular techniques (PCR, microscopy), data analysis (bioinformatics basics), scientific writing, lab safety, problem-solving, critical thinking, teamwork, continuous learning, microscopy.
- **Microbiologist/Biotechnologist** – *Skills*: Microbial culture, fermentation, aseptic techniques, molecular biology (DNA/RNA analysis), bioreactor operation, data analysis, quality control, lab equipment handling, attention to detail, report writing.
- **Medical Laboratory Scientist** – *Skills*: Clinical lab techniques (hematology, immunology tests), analyzer operation, quality control, phlebotomy basics, lab information systems, troubleshooting, attention to detail, communication (with clinicians), medical ethics, certification (MLSCN).
- **Environmental Conservation Officer** – *Skills*: Field survey methods, species identification, GIS mapping, environmental impact assessment, report writing, communication, data collection, ecological research, grant writing, teamwork.
- **Biology Educator (Teacher/Lecturer)** – *Skills*: Biological knowledge, curriculum development, experiment demonstration, communication, assessment design, patience, educational technology, mentoring, research aptitude, continuous education.

Sources: Industry and career guides (e.g. Nexford University job reports [19] [15]), educational and professional websites (e.g. Suresuccess on computer science careers [1], NIMN marketing careers [27], Techpoint tech skills [6] [3], Superprof law careers [8] [13]) were consulted to identify common roles, industries, and requisite skills. Each role's skills combine cited recommendations and standard industry expectations (e.g. communication, analysis, domain-specific tools and methods) [29] [31] [6] [20].

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