

## NATIONAL UNIVERSITY-SUDAN

### CAREE OPPORTUNITIES

#	FACULTY	CAREER
1	Medicine	Graduates will be temporarily registered with the Council as house-officers. After spending a prescribed period, in a set of medical specializations, graduates sit for the licensing examination to obtain permanent registration with the Sudan Medical Council, as medical officers. to work in public or private health sector. They can further their studies to a PhD level in basic sciences (anatomy, physiology, and biochemistry and their branches like genetics and molecular biology) or MD or fellowship to specialize in clinical sciences: medicine, surgery, obstetrics and gynecology, paediatrics, and oncology and their subspecialties, or may qualify with doctorates or fellowships to be consultants in diagnostic sciences (pathology, immunology, microbiology, radiology and imaging), community medicine (community medicine and public health, health statistics) or in forensic medicine to work in the healthcare services, research institutes and/or in universities. They can be involved in managerial, commercial, industrial or NGOs career, related to one of the various specialties of medical sciences, practice or research.
2	Pharmacy	Graduates pass through the track decreed by the Sudan Medical Council and are temporarily registered as pharmacists. After working for a period specified by the Federal Ministry of Health in each specialty/discipline, students acquire a license of permanent registration with the Sudan Medical Council and may work in pharmacies or hospitals as administrative pharmacist, clinical pharmacist or work in the industry. They may pursue master and doctoral degrees in the various disciplines of pharmacy to qualify for teaching in universities, research institutes or work in pharmaceutical products, reagents or dyes. They may be interested in managerial, commercial, industrial or NGOs career, related to one of the various specialties in the pharmacy research, practice or trade.
3	Dentistry	Graduates pass through a track decreed by the Sudan Medical Council and are thus temporarily registered as house officer dentists. After working for a period specified by the Federal Ministry of Health in each specialty/discipline, graduates acquire a license of permanent registration with the Sudan Medical Council. They may pursue master's and doctoral degrees or fellowship in any of the eight disciplines of dentistry or basic science to qualify for specialized practice as a consultant/specialist. They may join research institutes or university teaching. Those who specialize in oral health work in health promotion in ministries of health or organizations. The graduate may be interested in managerial, commercial, industrial or NGOs career, related to one of the various specialties in the dental research and practice. Trading in dental materials and appliances is a lucrative business, especially if the dentist is interested in import or manufacturing.
4	Radiography	Graduates should follow the track decreed by the National Council of Medical Health and Professionals. They will be licensed as technologist, a respectful status concerned with knowledge of imaging machines and techniques of taking, storing, archiving and retrieving images (they have no concern with diagnosis or writing reports). They may Graduates may pursue master and doctoral degrees in the fields of medical imaging sciences and technology to qualify for university teaching. They may work for the industry or in other specialized related fields. The graduates can also easily fit in managerial, commercial, industrial or NGOs careers, related to one of the various specialties in the medical imaging practice (research, diagnostic and therapeutic services) in the rapidly expanding imaging technology.
5	Physiotherapy	Graduates pass through a track decreed by the Medical and Health Professions Council, to licensed as technologist (bachelor degree) or technician (diploma). They work in administration of a physiotherapy unit and operate the systems to treat the patients referred by the medical consultant who request certain techniques using common terminology understood by the physiotherapist. They practice as physiotherapy technologists, and may pursue postgraduate studies in the sub-specialties of



		the profession, or obtain a master or a PhD to qualify for university teaching staff, in colleges of physical therapy and rehabilitation. Both graduates, from the bachelor degree or diploma, may be interested in managerial, commercial, industrial, research or NGOs career, related to one of the various specialties in the physiotherapy, rehabilitation services, practice, and research.
6	Computer Science	Graduates pass through a track decreed by the informatics professions, and are registered as technologists in Computer Science and Informatics. They may proceed to do MSc or PhD to qualify for teaching in universities or working in research. They may be interested to employ in managerial, commercial, research, industrial or NGO, career, related to one of the various specialties in the information technology. The most successful graduates are those who become entrepreneurs and employ themselves and others in innovative hardware and programming activities in health, industry and governance.
7	Medical Lab. Sciences	Graduates follow the track decreed by the National Council of Medical and Health Professions, are registered as MLS specialists. They may pursue graduate studies to obtain Master or PhD in the field of medical laboratories to qualify for teaching in universities and in programmes of health professions. Graduates may be interested in managerial, research, commercial, and industrial or NGOs career, related to one of the various MLS disciplines: equipment and laboratory consumables manufacturing, management or trade.
8	Nursing	Graduates pass through a track decreed by the National Council for Medical and Health Professionals, where they are registered as nurse technologists, and may pursue postgraduate studies to obtain master's degree or PhD in the field of nursing to qualify for university teaching, in patient or community nursing, and in other related health professions programmes. They Graduates may be interested in managerial, commercial, research, industrial or NGOs career, related to one of the various specialties in the nursing and midwifery practice and research.
9	Business Admin, Accounting, Marketing and Business information Systems	<b>Business Administration</b> and Human Resources track includes human resources management, organizational behaviour, organizational design, communication for business, and perspectives into international business, strategic management, organizational psychology. <b>Marketing</b> track includes analysis of consumer behavior, supply chain management, marketing research/survey, sales and sales management, marketing management, international and e-marketing, communication in integrated marketing and e-marketing, marketing analysis, advertising. <b>Accounting</b> and finance specialization includes foundations of financial accounting, intermediate accounting, advanced accounting, cost accounting, accounting information systems, capital budget, taxation, theory and practice of auditing, international accounting, e-accounting, investment and financial analysis. <b>Business Information Systems'</b> track includes the concepts of information databases, management of information sources, communication technology, software engineering, computer programming, and graduation research project, web page management. Graduates of these specializations scoring high grades have the chance to work in public and private sectors (Sudanese ministries, international and non-governmental organizations, banks, factories, companies) or can choose to go for business self-employment. They may opt to obtain higher degrees (M.Sc. and PhD) to involve in research or university teaching. They may be interested in managerial, commercial, industrial or NGOs career, related to one of the various sub specialties in each major specialization. Opportunities are unlimited for business-driven graduates who establish their own business (entrepreneurs).
10	International Relations and Diplomatic Studies	International Relations and Diplomatic Studies provide a wide spectrum of specialized career track for graduates including: Political Sciences, International Politics, Modern Diplomacy, International Security, Foreign Policy Analysis, International Economics, International Relations, International Law, Regional Integration, International Organizations, Migration and Refugees Issues, Ethics and Religion, Conflicts Resolution, Negotiations. The graduate applies for these specialties in the international organizations, especially the United Nations, regional organizations, NGOs, embassies, ministries of foreign affairs, ministry of internal affairs, ministries of international relations, armies, police and security, security companies, and permanent and ad-hoc committees of conflict resolution in border disputes, water shortage and pastureland disputes.

11	Civil engineering	<p>A graduate with B.Sc. in Civil Engineering (CE) should bear in mind that, Civil Engineering is the oldest and one of the most important branches of engineering profession all over the world as it relates to almost all aspects of civilization. Many of the important things in our lives are the product of civil engineering. <b>The civil engineer</b> Deals with a wide variety of engineering aspects such as designing, construction and maintenance of various structures (buildings, embankments, storage tanks, dams, roads, water and wastewater networks, irrigation and drainage networks etc): (1) solves execution problems, managing engineering and construction projects etc, (2) plans and manages transportation systems, traffic safety, (3) construction and development of water resources, treatment and reuse of wastewater etc...The civil engineer curriculum in NUSU is set to serve the broad range of activities of the profession. It is designed to fulfill the student's need of sufficient and balanced content of different civil engineering topics. The graduate can go in any of the fore mentioned areas, and be immediately enrolled in jobs. A graduate may choose to obtain masters and PhD in a subspecialty in civil engineering to teach in universities or work in research and consultation centres, private companies, international organizations, NGOs or as entrepreneurs in engineering business. International students are allowed to compete for engineering jobs in the Sudan.</p>
12	Electrical Engineering	<p>Graduates of B.EEE acquire a unique mix of electrical, electronics and computer-related subjects enabling them to take up a professional career /higher studies in any of many areas of the broad range of topics covered including: electrical circuits, electrical machines, control systems, measurements and instrumentation, power generation, distribution and transmission, analog and digital system design, power electronics, microprocessors, computer architecture, data structures, digital signal processing, communication systems, renewable energy systems and illumination technology etc... They The graduates can perform quite well in any one of the fore mentioned areas, and can be easily and immediately enrolled in jobs. A graduate may choose to obtain a Master and Ph.D. in the subspecialties of the electrical and electronic engineering, to work in universities or research and consultation firms. Their curriculum is updated periodically to cope with changes in the electrical and electronic engineering profession in consultation with experts from industries and other renowned academic institutions, who are also employers or consultants for employers in government and industry. International students are allowed to take electrical and electronic engineering jobs in the Sudan.</p>
13	Architecture	<p>Graduates of Architecture and Building Technology will be able to investigate principles and applications of technology, arts, humanities, engineering, physical and social sciences, business and management. These qualities give the discipline a cultural prominence that few other professions enjoy. Architecture reflects the living values of a culture. It gives form, order and proportion to human activities. They meet the requirements of professional practice in public and private companies or pursue their own business. The architect uses his knowledge and vision to produce his/her customer's ambitions entertaining complex interdisciplinary issues, that require collaboration and coordination with the variety of fields to achieve quality and beauty in houses, residential complexes, multipurpose buildings, shopping malls, educational institutions, companies, factories, according to their purposes, areas, surrounding environment, users, visitors, cultural background of users. The graduate can work with individuals, in private and public sectors, using communication skills that he/she learned at NUSU. They may enroll into graduate education to obtain MSc and PhD to qualify for teaching in universities or in research and consultation, or in international organizations and NGOs. An architect may start his own business as an entrepreneur, alone or with friends or family, and uses all skills of leadership and management to achieve in trade, marketing or industry of engineering materials or building technology.</p>