NIHERST STEM Professional Database

CRITERIA For Inclusion

This initiative entails building a database of individuals who meet the criteria stated below. STEM is a curriculum based on the idea of education in four specific disciplines science, technology, engineering and mathematics in an interdisciplinary and applied approach. Rather than teach the four disciplines as separate and discrete subjects, STEM integrates them into a cohesive learning paradigm based on real-world applications.

Criteria for Inclusion into NIHERST STEM Professional Database

1. Individuals born or lived in underserved or under-represented communities and/or

2. Individuals who studied in non-prestigious schools and despite circumstances managed to be successful in a STEM field or career.

3. Individuals who have an established career under the following STEM fields mentioned below. Please note that this listing serves only as a guide and does not list all STEM careers.

STEM CAREERS GUIDE			
Natural Sciences	**Engineering and Technology**	**Medical and Health Science**	**Agriculture Sciences**
Natural Sciences Managers	Operations Research Analysts	Biomedical Engineers	Landscape Architects
Chemical Technicians	Industrial Engineers	Medical Scientists	Conservation Scientists
Biochemists and Biophysicists	Electrical and Electronic Engineering Technicians	Health and Safety Engineers	Environmental Engineering Technicians
Actuaries	Civil Engineers	Food Scientists	Environmental Scientists
Microbiologists	Computer and Information Systems Managers	Epidemiologists	Soil and Plant Scientists
Hydrologists	Electro-Mechanical Technicians	Medical Doctor	Environmental Engineers
Statisticians	Surveyors	Clinical Data Managers	Precision Agriculture Technicians
Materials Scientists	Computer Hardware Engineers	Pharmacy Technician	Animal Geneticist
Chemists	Computer and Information Scientists	Medical Assistant	Plant Geneticist
Biological Technicians	Mechanical Engineer and Technicians	Medical Transcriptionist	Grain Marketing Specialist
Zoologists and Wildlife Biologists	Architectural and Engineering Managers	Medical Laboratory Technician	Agricultural Engineer
Astronomers	Electronics Engineers	Genetic Counselor	Weed Scientist
Anthropologists and Archeologists		Ultrasound Technologist	Food Science Technician
Atmospheric and Space Scientists		Radiology Technologist	Veterinarian
Biochemists and Biophysicists		CT/MRI Technologist	Horticulturalist
Biostatisticians		Mammography Technologist.	Agricultural engineer
Geneticists		Nuclear Medicine Technologist	Aquatic Ecologist
Geographers		Special Procedures Technologist	Agricultural Food Scientist
			Agricultural Inspector

STEM CAREERS GUIDE			
Natural Sciences	**Engineering and Technology**	**Medical and Health Science**	**Agriculture Sciences**
Geoscientists Human Factors Engineers and Ergonomists Mathematical Technicians Mathematicians Mining and Geological Engineers Physicists Remote Sensing Scientists and Technologists	Surveying and Mapping Technicians Chemical Engineers Cartographers and Photogrammetrists Aerospace Engineers Automotive Engineers Energy Engineers Marine Engineers Microsystems Engineers Nanosystems Engineers Nuclear Engineers Petroleum Engineers Robotics Engineers Validation Engineers Information Technology (IT) Programmer IT App Developer IT Software Developer	Surgical Technologist Telemetry Technicians Clinical Laboratory Scientist Microbiologist Hematologist Cytogenetics Immunologist	Agricultural Manager Agricultural Specialist Agronomist Aquatic Ecologist Arborist Beekeeper Botanist Endangered Species Biologist Fisheries Biologist Fishery Manager Forest Firefighter Forest Health Specialist Forest Ranger Forester Horticulturalist Horticulture Technician Landscaper Municipal Forester Nutrient Management Specialist Plant Biologist Plant Ecologist Silvicultural Researcher Soil and Plant Scientist Soil Engineer Water Conservationist Water Management Planner Water Quality Specialist Wetlands Biologist Wetlands Designer Wildlife Administrator Wildlife Consultant Wildlife Forensics Wildlife Inspector Wildlife Manager Wildlife Officer

4. Engaged in any of the following STEM related activities
    a. Scientists engaged in publicly financed research or private funded institutions or from non-profit organizations

b. Academicians engaged in research
c. Research and development professionals in private enterprises
d. Intellectual property administrators engaging with innovations and technology
e. Venture capital professionals engaged in venture incubation and support for science & technology
f. Regulators engaged in technology validations
g. Teaching, legal, marketing professionals involved in the area of science and technology management and its profession