



Help for Establishment of Empowerment & Development

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RESEARCH SUPPORT ADVERT

For Researchers, Masters and PhD Students

Consultancy Fees: Applicable only to Researchers, Masters & PhD students who have funding.

Rates for Consultancy Fees: are available upon request from: research@heed.org.za

Free Research Support: Applicable to unfunded Researchers, Masters & PhD students

WELCOME TO OUR RESEARCH SUPPORT HUB

Welcome to our Research Support Hub

HOW OUR RESEARCH SUPPORT HUB ASSISTS IN SUCCESSFUL RESEARCH FEASIBILITY STUDY, RESEARCH PLANNING, RESEARCH IMPLEMENTATION AND COMPLETION OF RESEARCH PROJECTS.

As explained below, our Research Support Hub is a competitively affordable Fee-Paying Research Consultancy Service which assists Amateur Researchers and Professional Researchers to successfully conclude the following 2 aims:

- **FIRST AIM:** Successful completion of Research Feasibility Studies and Research Planning.
- **SECOND AIM:** Successful Research Implementation and Completion of Research Projects.

(1.0) FIRST AIM OF OUR RESEARCH SUPPORT HUB INVOLVING SUCCESSFUL COMPLETION OF RESEARCH FEASIBILITY STUDY AND RESEARCH PLANNING

The comprehensive guidance that our Research Support Hub provides both to Amateur and Professional Researchers at affordable Consultancy Fees (*preferably if they have funding in the form of Bursaries, Research Grants, Research assistantships etc.*) includes ensuring that Researchers are able to ANSWER and fulfil the dictates of the following 20 x RESEARCH FEASIBILITY STUDY & RESEARCH PLANNING QUESTIONS before Researchers draft their Research Proposals and/or Research Concepts on which commissioning of their Research Projects will be based:

(1.1) RESEARCH FEASIBILITY STUDY & RESEARCH PLANNING QUESTIONS

(1.1.1) Where will I obtain the format which I will use to compile my Research Proposal and/or Research Concept with the understanding that our Research Support Hub will assist with editing including proof reading for paraphrasing, similarity avoidance (i.e. Plagiarism avoidance), syntax correction, grammar correction etc?

(1.1.2) Is my Theoretical Statement based on verifiable Hypotheses and is my Problem Statement based on my Hypotheses including the question whether I have identified any peer publication(s) and/or body of knowledge where my research results and inferences thereof will positively contribute as novel innovations and/or novel “game changing” findings?

(1.1.3) What are my dependent and independent variables?

(1.1.4) What are my Overall Objectives and Specific Objectives or Research Questions?

(1.1.5) What Ethics, pieces of Legislation and Environmental Impact Ameliorating Factors must I not contravene during my Research Project?

(1.1.6) What Accreditations, Ethics Clearance and pertinent Registrations do I need before I implement my Research Project?

(1.1.7) What is the most concise TITLE of the research that I intend to implement and does the TITLE have action words?

(1.1.8) What Research Design & Methodology will suite my intended research?

(1.1.9) What parameters will I be measuring or recording and how will I design my Data Arrangement Template using an Excel Spreadsheet?

(1.1.10) How will I physically collect my Data (i.e. Data Capturing)?

(1.1.11) How will I terminate my physical collection of my Data (i.e. Data Capturing) and where applicable how and where will I dispose off my dependent variables?

(1.1.12) Which of the following examples of “Embedded Analytics” will I require our Research Support Hub to use for Data mining/text mining/predictive analytics/industrial statistics with respect to my Data?

- ANOVA (Analysis of Variance).
- Basic Statistics
- Box-Cox
- Canonical Correlation Analysis
- Classification Trees
- Cluster Analysis Techniques
- Correlations
- Correspondence Analysis
- Cox Proportional Hazard Model
- Descriptive Statistics, Breakdowns, and Exploratory Data Analysis
- Discriminant Analysis
- Distribution and Simulation
- Distribution Fitting
- Factor Analysis
- Frequency Tables, Crosstabulation Tables, Stub-and-Banner Tables, Multiple Response Analysis
- General Discriminant Analysis Models (GDA)
- General Linear Models (GLM) • General Nonlinear Estimation (and Quick Logit/Probit Regression)
- General Partial Least Squares Models(PLS)
- General Regression Models (GRM)
- Generalized Linear Models (GLZ)
- Interactive Probability Calculator
- Log-Linear Analysis of Frequency Tables
- Multidimensional Scaling
- Multiple Regression Methods
- Multivariate Exploratory Techniques
- Nonparametric Statistics
- Power Analysis and Interval Estimate
- Principal Components & Classification Analysis

- Reliability/Item Analysis
- Structural Equation Modelling/Path Analysis (SEPATH)
- Survival/Failure Time Analysis
- Time Series Analysis/Forecasting
- T-Tests
- Variance Components and Mixed Model ANOVA/ANCOVA
- Association Rules
- Automated Neural Network
- Boosted Trees
- Data Miner Recipes
- Deep Learning
- Feature Selection and Variable Filtering (predictor selecting)
- General CHAID (Chi-square Automatic Interaction Detection) Models
- General Classification and Regression Trees (GTrees)
- Generalized Additive Models (GAM)
- Generalized EM & k-Means Cluster Analysis
- Goodness of Fit Computations
- Interactive Classification and Regression Trees
- Interactive Drill-Down Explorer
- K-Nearest Neighbors
- Lasso Regression (predictor selection)
- Multivariate Adaptive Regression Splines (MARSplines)
- Random Forest
- Rapid Deployment of Predictive Models
- Support Vector Machines (SVM)
- Design of Experiment
- Extract, Transform, and Load (ETL)
- Industrial Statistics (Quality Control)
- Multivariate Statistical Process Control
- Process Analysis
- Process Capability Analysis
- Reporting Tables
- Rules Builder
- Sequence and Link Analysis
- Text Miner Variance Estimation and Precision
- Weight Of Evidence (predictor selection and binning).

(1.1.13) Which of the following statistical software has the appropriate “Embedded Analytics” and as such must preferably be used by the Research Support Hub to analyse my Data?:

- Eview

- MStat.
- Python.
- R Project for Statistical computing Software.
- SAS 9.4 version
- SPSS.
- Stata.
- Statistica 13.5 version.
- Etc.

(1.1.14) How will I interpret my Data and make inferences based on empirical evidence?

(1.1.15) Where will I obtain the format which I will use to compile my Thesis, Dissertation, Research Report, Article(s) etc., with the understanding that our Research Support Hub will assist with editing including proof reading for paraphrasing, similarity avoidance (plagiarism), syntax correction, grammar correction etc.?

(1.1.16) In what publication(s), periodicals, journal(s), book(s) etc., will I publish outcomes of my Research Project and which individuals, private companies, institutions, government entities, research centers, non-governmental organizations etc., will benefit from outcomes of my Research Project?

(1.1.17) What resources will I need to implement my Research Project and what resources are available and/or accessible to support my Research Project and additionally, where may I obtain the said research resources?

(1.1.18) Do I have an appropriate Research Supervision Regime or an appropriate Research Team or appropriate Research Collaboration Partners or Research Peers who will assist and/or advise me on how to successfully implement my Research Project?

(1.1.19) How available will I be with respect to ensuring that I pay maximum attention to every petty detail of my Research Project?

(1.1.20) What will be the estimated cost of the Research Project that I intend to implement and will I pay for research costs using funds raised by myself and/or using funds raised by the Research Support Hub?

(2.0) SECOND AIM OF OUR RESEARCH SUPPORT HUB IS TO ENSURE RESEARCH IMPLEMENTATION AND COMPLETION OF RESEARCH PROJECTS.

The second and ultimate aim of our Research Support Hub is to comprehensively guide Researchers to complete their Research Projects leading to attainment either of postgraduate qualifications and/or being able to use research results and inferences thereof to take sound decisions based on empirical evidence.

Our Research Support Hub wishes you success as you join our numerous Amateur and Professional Researchers in a research journey that will involve Research Feasibility Study, Research Planning, Research Implementation and Completion of Research Projects with the understanding that our Fee-Paying Research Consultancy Service is user friendly as is evidenced by the competitively affordable nature of our Fees for Consultancy Services which are preferably applicable if to Amateur and Professional Researchers who have funding in the form of Bursaries, Research Grants, Research Assistantships etc. The rates for the said Research Consultancy fees are available upon request from: research@heed.org.za

(3.0) HOW TO APPLY TO BE SUPPORTED BY OUR RESEARCH SUPPORT HUB:

Simply go and complete our ONLINE Application Form [FFW P001](#) which is on the Research Support TAB on the News Flash of our website www.heed.org.za

Best regards,

Research Support Hub Team.

ANNEXURE 1

LIST OF POSGRADUATE STUDENTS WHO ARE BEING ASSISTED BY OUR RESEARCH SUPPORT HUB For Researchers, Masters and PhD Students as of 20 November 2021

No	NAMES	QUALIFICATION	TOPIC	INSTITUTION
1	Chavula L.A	MSc Agriculture	Efficacy Determination of <i>Aspergillus oryzae</i> Derived Prebiotic Additives of Protein Lick Supplements for Beef (<i>Bos taurus</i>) heifers grazing in natural winter pastures in Bloemfontein area of South Africa.	University of Free State
2	Dipu S	MSc Agriculture	Effect of Aquacultural Waste-Water Irrigation Regimes on Growth, Yield and Human Organoleptic Response among selected <i>Spinacia oleracia</i> L genotypes grown at Xhariep Aquaculture Training & Development Centre in Free State Province.	UNISA
3	Hlohlongwane M.J	MSc Agriculture	Evaluation of Relationship between Synthetic & Organic Fertilizer Use and Days to Tuber Spoilage in High Beta-Carotene Containing Sweet Potatoes (<i>Ipomea batatas</i> Lam.)	UNISA
4	Motholo S.A	MSc Agriculture	Comparative evaluation of Growth Response of Swiss Card (<i>Beta vulgaris</i> var. cicla) to in-Situ and ex-Situ Aquacultural Waste Water Irrigation at Xhariep Aquaculture Training and Development Centre in Free State Province	UNISA
5	Tsiu L	MSc Agriculture	Empirical Evaluation of Correlation between Newly Certified Genotypes of Wheat (<i>Triticum aestivum</i>) and Respective Nutritive Values of their Wheat Grain and Stover for Human Consumption and Stockfeeding.	UNISA
6	Makungu M	PhD Agriculture	Response of South African Grain Sorghum (<i>Sorghum bicolor</i> (L.) Moench) Hybrids to Soil Applied Herbicides Under Simulated Semi-Arid Minimum Tillage Conditions	UNISA
7	Molekwa JT	PhD Agriculture	Sex Determination Precision Evaluation in Selected South African Indigenous and Exotic Chickens (<i>Gallus gallus domesticus</i>). [A pragmatic comparison between Conventional and Innovative Sex Determination Methods]	UNISA
8	Monku S	PhD Agriculture	The identification of mechanism of foliar feed absorption by the root of kale (<i>Brassica Oleracea</i> Var. Acephala) when root applied.	UNISA
9	Sikana D M M	PhD Agriculture	An investigation into the financial and non-financial measures that can be used to measure performance of procurement and supply chain functions of organisations in Botswana: the case of the balanced scorecard	UNISA
10	Sumpa I	PhD Agriculture	Evaluation of Growth, Storage and Processing Adaptability of New Commercial Grain <i>Sorghum bicolor</i> (L.) Moench Genotypes in Moderate Rainfall (Semi-arid) and Low rainfall (Arid) Areas of Botswana	UNISA

ANNEXURE 2

PHOTO OF AGRONOMY RESEARCH IN PROGRESS IN THE GREENHOUSE AT HORTICULTURE CENTRE AT UNISA FLORIDA SCIENCE CAMPUS



ANNEXURE 3

PHOTO OF DAIRY SCIENCE RESEARCH IN PROGRESS IN THE DAIRY PARLOR AT PARADYS RESEARCH FARM AT UNIVERSITY OF FREE STATE

