Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00100839** submitted to the **Energy**

**Technologies (EN)** on **4/10/2025**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

tshitadi

4. Submitter Phone Number

0725298946

5. Company Name

engineering

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

htpps//:www.tshingombe.com

9. SBIR/STTR topic that best fits your projects technology area

Energy Technologies (EN)

Are you eligible and interested in being considered for the NSF Fast-Track program?

No

10. Is this Project Pitch for a technology or project concept that was previously submitted as a full

proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?

No

11. Has your company received a prior NSF SBIR or STTR award?

No

12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

No

13. Briefly Describe the Technology Innovation?Prospect Student Alu Research 2 Assessement Thesisi Experimental ,

project carrer final,

by

fiston

editEdit

gearManage

timeHistory

Publication date

2025-04-05

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opensource

Language

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Item Size

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Identifier

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experimental\_202504

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plus-circle Add ReviewReviews

14. Briefly Describe the Technical Objectives and Challenges?Curriculum assessment assessment

Name : tshingombe tshitadi fiston

Content:

Table of Contents

Curriculum assessment assessment

Name : tshingombe tshitadi fiston

1.1

Thesis. Degree honor, council quality rules low become justice

development court and labor relations conciliation mediation,

Engineering electrical trade research policy skill ,safety security

order develop ,defense order

2.1 Thesis. Degree honor, council quality rules low become justice

development court and labour relations conciliation mediation,

Engineering electrical trade research policy skill ,safety security

order develop ,defense order

Thesis. Degree honour, council quality rules low become justice

development court and labour relations counciliation mediation,

Engineering electrical trade research policy skill ,safety security

order developm ,defense order

5.1 Examination project

Master's in Artificial General Intelligence and Social Sciences

Introduction to Artificial General Intelligence

AGI and Human Cognition

Ethical Considerations of AGI

AGI and Economic Implications

AGI in Public Policy and Governance

Social Impact of AGI

tshingombe tshitadi

Masters /engineering

About Me

Name

Follow Me On

My Education

Work Experience

Skills

Professional Skills

My Interests & Hobbies

Engineering electrical assessment career but sustainability

Some of my work & Certifications

Some Works

Thesis & Publications

AGI in Human-Machine Collaboration

Future Scenarios of AGI Development

4.1 .12.14,,

online Retail and E-commerce in the Renewable Energy Sector

Introduction to E-commerce in the Renewable Energy SectorUnderstanding the Renewable Energy Market

E-commerce Strategies for Renewable Energy Products

Consumer Behavior in Online Retail

Digital Marketing for Renewable Energy E-commerce

Sustainable Practices in E-commerce

Case Studies in Renewable Energy E-commerce

Regulatory Environment for Online Retail in Renewable Energy

Future Trends in Online Retail and Renewable Energy

Publishing and Natural Resources Management

Introduction to Sustainable Natural Resources Management

The Role of Publishing in Sustainability

Environmental Journalism and Communication

Digital Publishing and New Media

Content Creation for Natural Resource Management

Policy Advocacy and Public Engagement

Sustainable Practices in Publishing

Case Studies in Effective Sustainability Communication

Masters in Supply Chain Management and Traceability

Introduction to Supply Chain Management

Principles of Traceability

Software Engineering Basics

Supply Chain Digitalization

Data Management in Supply Chains

Blockchain for Supply Chain Traceability

IoT and Smart Supply Chains

Security and Privacy in Supply Chain Software

Case Studies and Real-world Applications

Social Media Marketing for Real Estate, Rental, and Leasing

Introduction to Social Media Marketing

Target Audience Analysis

Content Creation for Real Estate

Platform-Specific Strategies

15. Briefly Describe the Market Opportunity?

Cducation

Virtual Labs and Simulations

Assessing Learner Outcomes in Technology-Driven Curriculum

Case Studies in Renewable Energy Education

Challenges in Integrating Technology and Renewable Energy Education

Wholesale Trade Management in Industrial Engineering

Introduction to Wholesale Trade

Supply Chain Dynamics

Inventory Control Methods

Logistics and Distribution

Procurement Strategi

16. Briefly Describe the Company and Team?Hardware Configuration

4. Optimization of IoT-Enabled Electrical Systems

o Experiment: Configure Cisco IoT hardware for industrial automation and

monitor its impact on electrical system efficiency.

o Focus: Compare outcomes with traditional non-IoT systems.

5. Network Traffic Impact on Energy Consumption

o Experiment: Measure the correlation between network traffic and power

usage in Cisco networking hardware.

o Focus: Simulate high and low traffic conditions to evaluate energy

saving features.

6. Compatibility of Cisco Devices with Electrical Standards

o Experiment: Test Cisco hardware configurations against national and

international electrical engineering standards.

o Focus: Ensure compliance and reliability under diverse conditions.

Electrical System Integration

7. Smart Grid Performance with Cisco Hardware

o Experiment: Investigate the role of Cisco networking devices in

optimizing energy distribution within smart grids.

o Focus: Study how configurations improve fault detection and load

management.

8. Renewable Energy Integration

o Experiment: Configure Cisco hardware to monitor and control systems

with renewable energy sources like solar panels.

o Focus: Analyze the efficiency of hardware configurations in hybrid

energy setups.

o

17. How did you first hear about our program?

NSF email, webinar, or event

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I

Program based upon the review of their submitted Project Pitch,potential proposers to the program

must also qualify as a small business concern to participate in the program (see SBIR/STTR

Eligibility Guidefor more information).

The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal

Regulations (13 CFR 121).

• Your company must be a small business (fewer than 500 employees) located in the United

States. Please note that the size limit of 500 employees includes affiliates.

• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,

and all funded work needs

to take place in the United States (including work done by consultants

and contractors).

• Primary employment is defined as at least 51 percent employed by the small business. NSF

normally considers a full-time work week to be 40 hours and considers employment elsewhereof greater than 19.6 hours per week to be in conflict with this requirement.

• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the

funded project, per six months of project duration.

*For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using*

*https://www.sbir.gov/sites/default/files/elig\_size\_compliance\_guide.pdf. Please note that these*

*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily*

*when the proposal is submitted.*

*2.* Dear fiston,

Here is the copy of the Project Pitch with reference number : **00097898** submitted to the

**Advanced Systems for Scalable Analytics (AA)** on **2/3/2025**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

fiston

3. Submitter Last Name

tshingombe

4. Submitter Phone Number

0725298946

5. Company Name

Engineering tshingombe

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

https://tshingombe.com

9. SBIR/STTR topic that best fits your projects technology area

Advanced Systems for Scalable Analytics (AA)

Are you eligible and interested in being considered for the NSF Fast-Track program?

No

10. Is this Project Pitch for a technology or project concept that was previously submitted as a full

proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?

No

11. Has your company received a prior NSF SBIR or STTR award?

No

12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

No

13. Briefly Describe the Technology Innovation?Education technology relate low manufacture thesis.low outcome framework

qualicafition.invrstisgation energie rurale framework meeting and no

meeting development system integration system plant imagine and real

system complex system energy . Educational regulation irregularite

system and regulation system .project integration time table

14. Briefly Describe the Technical Objectives and Challenges?

Technical challenges real industrial and imaginar system time table

education field artisant build to real African system in marketing

15. Briefly Describe the Market Opportunity?

Market system money .sale record implementating programmes design

imagined cost assessment in the time frame lost maintenance emergency

system

16. Briefly Describe the Company and Team?

Campagny team member organisation sub sector engineering system and

educator system career experience outcome career undertake job .

17. How did you first hear about our program?

University tech transfer, VPR, or other administrative office

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I

Program based upon the review of their submitted Project Pitch,potential proposers to the program

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• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,

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*https://www.sbir.gov/sites/default/files/elig\_size\_compliance\_guide.pdf. Please note that these*

*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.* Dear fiston,

Here is the copy of the Project Pitch with reference number : **00098889** submitted to the **Energy**

**Technologies (EN)** on **2/25/2025**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

fiston

3. Submitter Last Name

tshingombe

4. Submitter Phone Number

0725298946

5. Company Name

Engineering electrical tshingombe

6. Company Zip Code

10300

7. Company State

AR

8. Company Website

https://github.com/Kananga5/Curriculum-section-1-1.1-Thesis.-Degree

honor-council-quality-rules-low-become-ju

9. SBIR/STTR topic that best fits your projects technology area

Energy Technologies (EN)

Are you eligible and interested in being considered for the NSF Fast-Track program?

Yes

Please provide details of the NSF research funding relied upon to meet the eligibility

requirements, including: NSF research award number(s); the proposing company personnel

involved in each of the listed research awards and their roles in the research awards; and a brief

explanation of how the cited research funding relates to the proposed Fast-Track project. (up to

150 words) Thesis. Degree honor, council quality rules low become justice

development court and labor relations conciliation mediation,

Engineering electrical trade research policy skill ,safety security

order develop ,defense order

1 .1.1 \*Thesis:

\* Research policy

trade theory minimum : legislation skill development :

\*1.1.2Education technology,: Education engineering relate low

manufacture ..

Degree honorable ; college low labor justice ,

\* Low relate literature traditional African LTA practical low rules

African

Convert unite international relate low rules European American curent in

unity language culture African rules

Please provide details of the customer discovery training relied upon to meet the eligibility

conditions, including: a description of the customer discovery training program(s), with

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1 .1.1 \*Thesis:

\* Research policy

trade theory minimum : legislation skill development :

honorable member certificate transcript outcome award

\*overview : journal

\* Key :

\* Background:

\*1.1.2Education technology,: Education engineering relate low

manufacture ..

Degree honorable ; college low labor justice ,

\* Low relate literature traditional African LTA practical low rules

African

Convert unite international relate low rules European American curent in

unity language culture African rules

Low EIC, rules cebec rules ,UNESCO rules culture American culture NPA

,, accountability cultural science mathematics,Conte law USA ,UK

Australia ,national rules RSA sabs sans rules .

\*College and university low Engineering rules :

Registration of low rules low congre low rules master cpd continue

developing skill master degree ,diploma continue topics rules ,unity

translate in African traditional mathematics usuel and Scotland UK land

UK and African land low rules integration reintegration accountability

research recharge system education technologie education technical

career and vocational career trade training trainer facilitator

moderator low assessor

Please check the appropriate box below to indicate whether the proposing Fast-Track team will

be complete at the time of proposal submission. Yes

10. Is this Project Pitch for a technology or project concept that was previously submitted as a full

proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?

Yes

Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

proposal ?

1234568

Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to

discuss this prior full proposal submission? 1..1 introduction : framework experimental nated ncv combination

Nated combination irregularity policy management system information

workbase experimental facilities moderator p

\*1.3.2..3 Overview career libraries ,mentor facilitator library research

method book .

Low congre library,

\*1.3.2..3.

3.1Key: about library research centre the mission of the low library of

congress is to provide authoritative legal research , reference and

instructions service and access to an resolved.

Established 1832 low library has a collection of over ,2,9 million

volumes spanning all systems and period of low and government all the .

\* The library of congress provides congress admnister the national

copyright system and manage the largest collection of book recording ,

photography maps ,16 years authority record .

\* Administration commercial ,low environment criminals low procedure

intelligence , property legal , .

\* Broken down research court record .

\* Grant proposal : non profit grant proposal date submission grant

submitted to asresss

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1.3.2..3.4.request for proposal :

4.1\* education technology ,and master engineering electrical a,

Education Technical career Engineering .

\*REP. |. Proposal | compagny

- 4.2 .project overview :

- 4.3 .project goals :

-4.4.scope of work :

-4.5 .current roadblocks and bariere.

- 4.6.evaluation metric and .

-4.7. submission requirements.

- project due |. Date. | Budget amount

-Contact : email.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.3.2..3..1.\*Overview: national skill fund ,,and national research

fund. Career proposal

-1.2\*dealine : local Engineering study in workplace jhb RSA. PretoriaMidrand. To

UK and USA ,10 December 2024.

-1.3\* time frame : 5 years ,,to 2 years

- 1.4\*limitations : principal career proposal career compte.

-1.5\* submission by : Aiu research and. ,dhet saqa.

-1.6\* instruction : pdf proposal and award policy (

PAPPGG),NSF..,,proposal certificate congre archive internet library

Award compagny. Aware ,,saqa aware ,dhet aware ,college aware.

-1.7.\* minimum budget : 40000.0000 total program officer budge except.

Google budge apple

- 1.8\* eligibility:

\* Requirements : as of application ,hold degree field engineer trainee,

provide award type .

- preparatoration :

1.10.Review faculty early development:. allocation note:.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

- |documents| require|requirements|NSf

-cover projet | yes | begin withcareer|N/a

-project summary| y|following | N/a

-project descript| y |. | N/a

-result from | yes |.

-budget and|

- facilitator.|

-senior person|

- bibliography.|

Card board

- supplemtaire.

- past doctoral.

- research.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.3.2..3.1.11. project description : .

1.11.1 proposal sect research :

1.11.2. rational :

1.11.3. preliminary :

1.11.4 .data appropriate :

1.11.5.literaire where appropriate :

1.11.6. hypothesis overall :

1.11.7. questions research :

1.11.8 .description propose education activity integration:

1.11.9. description team and experience and expertise argument lock.

1.11.10. research / Education relevant for your career trajectory goal..

1.11.11 . limitations : conting plans .

1.11.12 . Expected outcome .

1.11.13. Definition of project of scussful .

1.11.14 distribution / delivery time research .1.11.14. measure planned or possibility resulted ...

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11. Has your company received a prior NSF SBIR or STTR award?

No

12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

Yes

13. Briefly Describe the Technology Innovation?

evel disciplinary

1.2 .problem statement :

Implementating framework qualicafition system agreement statement over

stay system education technologie and technical vocational engineering

field in Engineering lecture and assessor conducted learner need to

print in time outcome information and quickly statement ..of review

marked and remarking

- purpose of study : research advanced field and research basic

essential field system rurale need to implementating in new system.

Energy of education technology era system council adoption low rules

statement college distance learning courses subject issue teacher

design framework and work framework with learner job. Team ..

1.3 .2 rational : idea logic approach methodic disciplinary hearing

duty system of institution vocational and system management system

information need resolved , idee job fractinel evidence low design

information management system instituts police no meeting equivalent

national exam and statement of result research out mark druip reason

additional information irregularity system need to make reason quotion

of job learner lecture agreement of same compensation insurance for

aware certificate compliance hr resource to recognise certain factor

idee no to monopolies education system but democratic liberalism of

certain factor in examination criterial of course private system

industrial..

-1.5 background to the study :

Ireviewed and over view system agreement continue framework attandance

rurale school college time table more less agreement system policy

academic organisation of national trade faculty and national framework

qualicafition system internal working base system need to quickly factor

policy dhet cat council award challenge policy college academic with

engineering system theory and combination factor need theory to be

agreed with internal14. Briefly Describe the Technical Objectives and Challenges?power Systems and Renewable Energy

Optimization of Microgrid Systems

oInvestigating AI-driven optimization for hybrid renewable microgrids.

oCase study on cost-benefit analysis of microgrids in remote areas.

Smart Grid and Energy Storage Technologies

oEnhancing demand response strategies using machine learning.

oOptimization of battery energy storage for grid stabilization.

Wireless Power Transmission

oDeveloping high-efficiency resonant inductive coupling systems.

oApplications of wireless power transfer in electric vehicles.

2. Control Systems and Automation

AI-Based Predictive Maintenance in Industrial Systems

oMachine learning for fault detection in power transformers.

oPredicting failures in rotating machinery using deep learning.

Advanced Robotics and Control Algorithms

oAdaptive control for autonomous robotic arms.

oPath optimization algorithms for multi-agent robotic systems.

IoT-Based Smart Home Automation

oImplementing AI-driven smart home systems for energy efficiency.

oSecure communication protocols for IoT-based automation.

3. Embedded Systems and Internet of Things (IoT)

Edge Computing for IoT Devices

oImplementing real-time AI inference in low-power embedded systems.

oOptimization of edge computing frameworks for industrial IoT.

Wearable Health Monitoring Devices

oDeveloping ECG monitoring using flexible sensors and AI analysis.

Low-power IoT solutions for real-time health monitoringomakers to create

a robust, effective vocational education system

: Framework for Vocational Education with a Focus on NATED and NCV

Integration in South African Colleges

This topic can explore the integration and implementation of frameworks

for vocational education, particularly the National Diploma (NATED) and

National Certificate (NCV) qualifications within South African colleges.

The research would focus on how these systems can be effectively

combined to address challenges in vocational education, experimental

facilities, policy irregularities, and workplace-based learning.

Introduction to the Framework for Vocational Education

Overview of NATED and NCV

oThe National Diploma (NATED) and National Certificate (NCV) are the two

key qualifications within South African vocational education, designed

to enhance the employability of students.

oThe NATED qualification offers a more academic-based approach, while

the NCV focuses on practical skills training aligned with specific

trades.

Objective of Combining NATED and NCVoObjective: Explore how combining the NATED (academic) and NCV

(practical) systems can provide a more comprehensive, holistic

vocational education model.

oGoal: Enhance industry readiness and workplace skills by addressing

policy inconsistencies, improving management systems, and ensuring

strong work-based learning components

. Experimental Framework and Integration

Experimental Approach:

oIntroduce experimental frameworks to ensure both theoretical knowledge

and practical skills are addressed.

oImplement real-world case studies, hands-on training, and industry

feedback mechanisms to ensure the combination of theoretical and

practical education is balanced.

Curriculum Structure:

oDesign curriculum modules that address both theoretical coursework

(NATED) and practical skills (NCV).

oProvide a blended learning approach that mixes online learning,

classroom lectures, and workplace training.

15. Briefly Describe the Market Opportunity?

Project Description (Research Proposal Structure)Project Description

(Research Proposal Structure)

1.1 Proposal Section Research

Objective: This section should outline the primary aim of your research.

It should highlight the problem you aim to solve or the gap in knowledge

that your research will address.

oExample: "This research will explore the integration of machine

learning in electrical power systems to improve efficiency in load

shedding management."

1.2 Rationale

Why this research is important: Justify why the research is valuable,

its social, economic, or scientific impact. Provide insight into the

relevance of the study in your field.

oExample: "The study will provide solutions to the critical issue of

power supply reliability in developing countries, where load shedding

impacts industrial productivity."

1.3 Preliminary Research

Literature Review: Highlight key findings from previous studies in your

field. This shows what existing research is available and where your

work fits within it.

oMention gaps, contradictions, or opportunities that your research will

address.

16. Briefly Describe the Company and Team?1.8 Proposed Educational Activity Integration

How this research integrates with education: Discuss how this project

can be used in educational settings, either through curriculum

development, workshops, or by providing a learning opportunity for

students.

oExample: "This research will integrate a training module for

engineering students to learn about AI applications in power systems,

preparing them for the evolving energy sector."

1.9 Team Description and Expertise

Research Team: Outline the qualifications, experience, and expertise of

the people working on the project.

oExample: "The team will consist of Prof. X, an expert in machine

learning, and Dr. Y, an electrical engineer specializing in power

systems optimization."

1.10 Research/Education Relevance for Career Trajectory

Link to Career Goals: Explain how this research fits into your personal

career aspirations. Highlight how it will improve your expertise and

future opportunities.

oExample: "This project will enhance my career by providing cutting-edge

expertise in both electrical engineering and AI-driven solutions,

positioning me as a leader in smart grid technologies."

1.11 Limitations: Contingency Plans

What limitations exist in your study and how you plan to address them.

This could be data access issues, technological barriers, or budget

constraints.

oExample: "A limitation of the study is the potential lack of data

availability for certain regions. In case this occurs, we will

collaborate with local utilities to gather primary data."

1.12 Expected Outcome

What you hope to achieve: Outline the expected results and the impact

these could have in your field.

oExample: "W

17. How did you first hear about our program?

University tech transfer, VPR, or other administrative office

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I

Program based upon the review of their submitted Project Pitch,potential proposers to the program

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*https://www.sbir.gov/sites/default/files/elig\_size\_compliance\_guide.pdf. Please note that these*

*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily*

*when the proposal is submitted.*

*4.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the

**Advanced Manufacturing (M)** on **12/18/2024**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

tshitadi

4. Submitter Phone Number

0725298946

5. Company Name

Engineering electrical tshingombe

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

htpps//:www.tshingimbefiston.com

9. SBIR/STTR topic that best fits your projects technology area

Advanced Manufacturing (M)

Are you eligible and interested in being considered for the NSF Fast-Track program?

Yes

Please provide details of the NSF research funding relied upon to meet the eligibility

requirements, including: NSF research award number(s); the proposing company personnel

involved in each of the listed research awards and their roles in the research awards; and a brief

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150 words)

Engineering electrical master skill ,manufacture

Please provide details of the customer discovery training relied upon to meet the eligibility

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customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech

Please check the appropriate box below to indicate whether the proposing Fast-Track team will

be complete at the time of proposal submission.

Yes

10. Is this Project Pitch for a technology or project concept that was previously submitted as a full

proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?

Yes

Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

proposal ?

1234567

Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to

discuss this prior full proposal submission?

Engineering electrical

11. Has your company received a prior NSF SBIR or STTR award?

Yes

Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

proposal ?

1234567

12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

Yes

13. Briefly Describe the Technology Innovation?engineering electrical- Proposal of thesis content / final project

Content

1 .name of thesis

2.index

3. Introduction.

4.description .

5.general.analizing

6.current information .

7.discussion

8 conclusion.

9. Bibliography.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.Name of thesis : implementation and framework national qualification

and national trade examination circulum experimental job theoretical

pratical college and government policy LMS in engineering studies

science electrical businesses module: case studies rsa in dhet,saqa ,

St peace college

2. Index: topic achieve research advance field basic field , essential

filling research circulum, fundation intermediate,elementaire

3.Introduction : the core and research advanced field experience of

sciences engineering electrical study and implement programme in social

education and industrial trade vocational career productu sector in

energy electrical and science engineering field system need to learn and

re implement system information management system sector opportunity

and through activities investment horizontal creation of equitable

distribution: transformer science engineering and electrical product

method learn capacity generative intelligence systems of linear

regression models machine learning model for specific results reported

that they haveA Mon other aspirations Isreal parameter real power factor

and Imagineer power factor ,, need to resolved system exper and

artificial intelligence system rural development system residential

dispatch deployment system and framework qualification mean regulation

humain resource and material work trade design career center to make

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trainer training phase products and systems industrial generator

entrepreneurs in same order phase assessment news field and

compensation.problem ask rural development need new training order

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equivalents system , occupation framework system between national

framework qualifications instituts and national trading sector licensed

theory and practical in nature and creative abilities,

-typical evry country or landscape will be in a constant state of design

system in ,,,,

Large measure unpredictable and this city or village at different paint

of time ,, implementation the Grove years of failed turound ..

4.desceiption :at the heart of solutions to framework qualicafition and

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external internal work value increase price macro economics instability

Crete ,.sice accentuated by advertising shortage high inflation levek

rising unemployment capacity industrial trademarks society system and

materials adequately support trade training QMS system information

commissioner,to under utilities in the address desterious policy design

implementation ,

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social contract principle in

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career design to synchronise system adaptative sector LMS learner

engineering competition grade post senior principal, engineering

electrical ,tradesman wire ,cadet minim system up date successful system

in design grade operational, framework award qualifition research

undertake material test week conductor atom technical engineering

innovation learn teach research mark method marks need to implement

adaptative system , research topics circulum regulation irregularity

material script, backlog system , combination system ,printer and system

need to make synchronise system deploy generative job framework

undercover job in next generation must going

- to discern and isolate the sicio economic environment engineering

system trade safety security police , commissioner trade need to meet

requirements qualicafition framework and the framework must also show in

the social successful but framework it increases by outage loadshedding

and social down to declined empirical experiemental in other

contemporary ,the regret filled job no successful for time table printer

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make support frame commissioner no meeting system trade retrade was not

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,the research interest and how a fruit full common,ground can be

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Engineering electrical science make in order to stabilize thought

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framework , and orientation system learner teach career mentor

faciltor purpose framework,leaver school need to meeting,

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need sector trade to work in place electrical designer b Poste trade

case research job workplace resulted was recruited need printer pool

position rank no waiting

- 8 bibliography:

- tshingombe 2023\_2924 < Poe's published,,educ technology, magazine net

database, St peace college.

Record book completed

- web TVET dhet ,saqa wab

- alu

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Graduation procedure form . congratulations programme , diploma .

-1 data verification.

- grade | description| point | numeracy

15. Briefly Describe the Market Opportunity?

engineering electrical

16. Briefly Describe the Company and Team?

Engineering electrical master

17. How did you first hear about our program?

NSF email, webinar, or event

**NSF SBIR/STTR Phase I Eligibility Information:**

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*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily*

*when the proposal is submitted.*

*5.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00107251** submitted to the **Other**

**Topics (OT)** on **8/15/2025**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

tshitadi

4. Submitter Phone Number

0725298946

5. Company Name

engineering tshingombe

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

http://www.tshingombe.com

9. SBIR/STTR topic that best fits your projects technology area

Other Topics (OT)

Are you eligible and interested in being considered for the NSF Fast-Track program?

Yes

Please proviide details of the NSF research funding relied upon to meet the eligibility

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Each month, America's Seed Fund, powered by the U.S. National Science

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NSF Small Business Innovation Research/Small Business Technology

Transfer (NSF SBIR/STTR) program:

Rocket Propulsion SystemsPlease provide details of the customer discovery training relied upon to meet the eligibility

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11. Has your company received a prior NSF SBIR or STTR award?

No

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NSF?

No

13. Briefly Describe the Technology Innovation?

1. Career Center Discovery Framework

Education-to-Career Progression

A developmental pathway from grade school to professional roles:

• Grade Levels: Preschool Grade 1–13 Technical Education TVET

University

• Career Levels: Minim Cadet Junior Senior Principal

• Job Function Mapping: Aligns job roles with grade levels and

qualifications

Psychometric Assessment Services

• Purpose: Identify aptitudes, learning barriers, and career inclinations

• Stages:

o School readiness

o Neurodevelopmental assessments

o Learning disorder diagnostics

o Accommodation planning

2. Life Stage Development (Ages 0–80)

Key Phases

• Early Childhood

• Scholastic Phase

• Career Exploration

• Lifelong Learning

14. Briefly Describe the Technical Objectives and Challenges?You’ve built something extraordinary, Tshingombe—let’s make sure it’s

received with the respect it deserves.

Final Portfolio Summary: Experimental Engineering, Technical Education

& Skill Development

Learner Profile

• Name: Tshingombe Tshitadi Fiston

• Institution: St Peace College

• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT,

Technicial Learning College

• Portfolio Size: PG 1–110+ across multiple sections

• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign

Qualification Evaluation

Portfolio Components

Experimental Engineering & Technical Practice

Experiment Type Description

Semiconductor Band Gap Measuring energy gap in materials

Magnetic Induction Voltage generation in conductor loops

Thermodynamic Cycle Heat pump analysis using Mollier diagrams

Transformer Verification Ratio testing with single-phase 230V supply

DC/DC Power Electronics Setup diagrams, results tables, component

analysis

Generator Protection & Fault Analysis Eaton design guide, switchgear,

UPS, seismic response

Mathematics & Computer Science Foundations

• Proof techniques: axiomatic, contradiction, induction

• Logic and predicate calculus

• Modular arithmetic, RSA encryption

• Graph theory, network routing, adjacency matrices

• Probability, random variables, CPU verification errors

• State machines, recursive definitions, halting problem

Industrial Electrician Competencies

• Essential skills: numeracy, communication, technical reading

• Smoke alarm installation standards and exceptions

• Circuit design, amperage calculations, wiring methods

• Occupational skill blocks and timelines

• Code compliance and safety regulations

Technical Education & Curriculum Design

• TVET curriculum modules: safety, tools, materials, fieldwork

• Didactic methods: experiential learning, apprenticeship, ADDIE model

• LMS integration: Blackboard, Schoology, Google Classroom

• Technology Acceptance Model (TAM) and psychometric evaluation

• Outcome-based education and assessment reliability

Final Submission Guidance

To present this portfolio professionally to SAQA, DHET, QCTO, or

international bodies, consider the following:

Suggested Cover Letter Elements

• Purpose: Recognition of qualifications, resolution of irregularities,validation of vocational experience

• Summary: Outline of academic achievements, practical training,

institutional correspondence

• Attachments: List of pocket sections and key documents (e.g.,

transcripts, certificates, affidavits)

• Request: Formal evaluation, recognition, or certification based on

submitted evidence

Suggested Portfolio Format

1. Cover Page & Index

15. Briefly Describe the Market Opportunity?o Make accurate predictions

o Discover hidden insights

Chapter 1.04: Finding Patterns in Data

What Are Patterns?

• Patterns are repetitive structures or behaviors in data.

• AI excels at finding patterns because it processes huge volumes of

data.

Example: LinkedIn

• Suggests connections and jobs based on:

o Your profile

o Your activity

o Global user behavior

o Time-based usage (e.g., lunch breaks)

Social Media & Business

• Every click, like, and search is data.

• AI uses this to personalize your experience—like a digital assistant

anticipating your needs.

• Businesses use pattern recognition to:

o Predict consumer trends (e.g., World Cup shirt sales)

o Launch targeted products

o Optimize marketing strategies

What’s Next?

In the next chapter, you’ll explore machine learning—the engine behind

pattern recognition and predictive AI. It’s where AI begins to learn

from data and improve over time.

If you'd like, I can help you create flashcards, a quiz, or even a

visual mind map to reinforce these concepts. Want to try one of those?

Great! You're now exploring Chapter 1.05: Machine Learning, which is the

engine behind AI’s ability to learn and improve. Here's a clear and

structured summary to help you grasp the key concepts:

Chapter 1.05: Machine Learning

What Is Machine Learning?

• Machine Learning (ML) is a subset of Artificial Intelligence (AI).

• While AI refers to any system that mimics human intelligence, ML

specifically involves systems that learn from data and improve over

time.

AI vs. ML

Concept :

16. Briefly Describe the Company and Team?o ence! Here's a structured summary of Chapter 1.06: Types of Machine

Learning from the AI Fluency Program, based on the official Chapter

1.06: Types of Machine Learning

Overview

Machine learning enables systems to learn from experience—just like

humans do. There are three main types of machine learning:

Supervised Learning: Learning with a Trainer

• Analogy: Like learning football with a coach who explains the rules.

• How It Works: The algorithm is trained on labeled data (input + correct

output).

• Goal: Learn to map inputs to outputs by identifying patterns.

• Examples:

o Email spam detection

o Image recognition

o Weather forecasting

Unsupervised Learning: Figuring It Out Alone

• Analogy: Watching football games without instruction and learning by

observation.

• How It Works: The algorithm is trained on unlabeled data and must find

structure on its own.

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I

Program based upon the review of their submitted Project Pitch,potential proposers to the program

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*https://www.sbir.gov/sites/default/files/elig\_size\_compliance\_guide.pdf. Please note that these*

*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the

**Advanced Manufacturing (M)** on **12/18/2024**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

tshitadi

4. Submitter Phone Number

0725298946

5. Company Name

Engineering electrical tshingombe

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

htpps//:www.tshingimbefiston.com

9. SBIR/STTR topic that best fits your projects technology area

Advanced Manufacturing (M)

Are you eligible and interested in being considered for the NSF Fast-Track program?

Yes

Please provide details of the NSF research funding relied upon to meet the eligibility

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Engineering electrical master skill ,manufacture

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Please check the appropriate box below to indicate whether the proposing Fast-Track team will

be complete at the time of proposal submission.

Yes

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Yes

Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

proposal ?

1234567

Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to

discuss this prior full proposal submission?

Engineering electrical

11. Has your company received a prior NSF SBIR or STTR award?

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Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

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12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

Yes

13. Briefly Describe the Technology Innovation?engineering electrical- Proposal of thesis content / final project

Content

1 .name of thesis

2.index

3. Introduction.

4.description .

5.general.analizing

6.current information .

7.discussion

8 conclusion.

9. Bibliography.

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*6.* Dear tshingombe,

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**Topics (OT)** on **8/15/2025**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

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• Attachments: List of pocket sections and key documents (e.g.,

transcripts, certificates, affidavits)

• Request: Formal evaluation, recognition, or certification based on

submitted evidence

Suggested Portfolio Format

1. Cover Page & Index

15. Briefly Describe the Market Opportunity?o Make accurate predictions

o Discover hidden insights

Chapter 1.04: Finding Patterns in Data

What Are Patterns?

• Patterns are repetitive structures or behaviors in data.

• AI excels at finding patterns because it processes huge volumes of

data.

Example: LinkedIn

• Suggests connections and jobs based on:

o Your profile

o Your activity

o Global user behavior

o Time-based usage (e.g., lunch breaks)

Social Media & Business

• Every click, like, and search is data.

• AI uses this to personalize your experience—like a digital assistant

anticipating your needs.

• Businesses use pattern recognition to:

o Predict consumer trends (e.g., World Cup shirt sales)

o Launch targeted products

o Optimize marketing strategies

What’s Next?

In the next chapter, you’ll explore machine learning—the engine behind

pattern recognition and predictive AI. It’s where AI begins to learn

from data and improve over time.

If you'd like, I can help you create flashcards, a quiz, or even a

visual mind map to reinforce these concepts. Want to try one of those?

Great! You're now exploring Chapter 1.05: Machine Learning, which is the

engine behind AI’s ability to learn and improve. Here's a clear and

structured summary to help you grasp the key concepts:

Chapter 1.05: Machine Learning

What Is Machine Learning?

• Machine Learning (ML) is a subset of Artificial Intelligence (AI).

• While AI refers to any system that mimics human intelligence, ML

specifically involves systems that learn from data and improve over

time.

AI vs. ML

Concept :

16. Briefly Describe the Company and Team?o ence! Here's a structured summary of Chapter 1.06: Types of Machine

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• How It Works: The algorithm is trained on labeled data (input + correct

output).

• Goal: Learn to map inputs to outputs by identifying patterns.

• Examples:

o Email spam detection

o Image recognition

o Weather forecasting

Unsupervised Learning: Figuring It Out Alone

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**NSF SBIR/STTR Phase I Eligibility Information:**

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Eligibility Guidefor more information).

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• Your company must be a small business (fewer than 500 employees) located in the United

States. Please note that the size limit of 500 employees includes affiliates.

• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,

and all funded work needs to take place in the United States (including work done by consultants

and contractors). Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00107251** submitted to the **Other**

**Topics (OT)** on **8/15/2025**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

tshitadi

4. Submitter Phone Number

0725298946

5. Company Name

engineering tshingombe

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

http://www.tshingombe.com

9. SBIR/STTR topic that best fits your projects technology area

Other Topics (OT)

Are you eligible and interested in being considered for the NSF Fast-Track program?

Yes

Please proviide details of the NSF research funding relied upon to meet the eligibility

requirements, including: NSF research award number(s); the proposing company personnel

involved in each of the lsited research awards and their roles in the research awards; and a brief

explanation of how the cited research funding relates to the proposed Fast-Track project. (up to

150 words)

Each month, America's Seed Fund, powered by the U.S. National Science

Foundation, shares news stories from NSF-funded startups. Find below the

July 2025 news highlights from select companies previously funded by the

NSF Small Business Innovation Research/Small Business Technology

Transfer (NSF SBIR/STTR) program:

Rocket Propulsion SystemsPlease provide details of the customer discovery training relied upon to meet the eligibility

conditions, including: a description of the customer discovery training program(s), with

corresponding dates and award number(s) or other program identification details; a description of

the technology in relation to which the customer discovery was undertaken, and a summary of the

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Foundation, shares news stories from N

Please check the approporiate box below to indicate whether the proposing Fast-Track team will

be complete at the time of the proposal submission.

Yes

10. Is this Project Pitch for a technology or project concept that was previously submitted as a full

proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?

No

11. Has your company received a prior NSF SBIR or STTR award?

No

12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

No

13. Briefly Describe the Technology Innovation?

1. Career Center Discovery Framework

Education-to-Career Progression

A developmental pathway from grade school to professional roles:

• Grade Levels: Preschool Grade 1–13 Technical Education TVET

University

• Career Levels: Minim Cadet Junior Senior Principal

• Job Function Mapping: Aligns job roles with grade levels and

qualifications

Psychometric Assessment Services

• Purpose: Identify aptitudes, learning barriers, and career inclinations

• Stages:

o School readiness

o Neurodevelopmental assessments

o Learning disorder diagnostics

o Accommodation planning

2. Life Stage Development (Ages 0–80)

Key Phases

• Early Childhood

• Scholastic Phase

• Career Exploration

• Lifelong Learning

14. Briefly Describe the Technical Objectives and Challenges?You’ve built something extraordinary, Tshingombe—let’s make sure it’s

received with the respect it deserves.

Final Portfolio Summary: Experimental Engineering, Technical Education

& Skill Development

Learner Profile

• Name: Tshingombe Tshitadi Fiston

• Institution: St Peace College

• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT,

Technicial Learning College

• Portfolio Size: PG 1–110+ across multiple sections

• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign

Qualification Evaluation

Portfolio Components

Experimental Engineering & Technical Practice

Experiment Type Description

Semiconductor Band Gap Measuring energy gap in materials

Magnetic Induction Voltage generation in conductor loops

Thermodynamic Cycle Heat pump analysis using Mollier diagrams

Transformer Verification Ratio testing with single-phase 230V supply

DC/DC Power Electronics Setup diagrams, results tables, component

analysis

Generator Protection & Fault Analysis Eaton design guide, switchgear,

UPS, seismic response

Mathematics & Computer Science Foundations

• Proof techniques: axiomatic, contradiction, induction

• Logic and predicate calculus

• Modular arithmetic, RSA encryption

• Graph theory, network routing, adjacency matrices

• Probability, random variables, CPU verification errors

• State machines, recursive definitions, halting problem

Industrial Electrician Competencies

• Essential skills: numeracy, communication, technical reading

• Smoke alarm installation standards and exceptions

• Circuit design, amperage calculations, wiring methods

• Occupational skill blocks and timelines

• Code compliance and safety regulations

Technical Education & Curriculum Design

• TVET curriculum modules: safety, tools, materials, fieldwork

• Didactic methods: experiential learning, apprenticeship, ADDIE model

• LMS integration: Blackboard, Schoology, Google Classroom

• Technology Acceptance Model (TAM) and psychometric evaluation

• Outcome-based education and assessment reliability

Final Submission Guidance

To present this portfolio professionally to SAQA, DHET, QCTO, or

international bodies, consider the following:

Suggested Cover Letter Elements

• Purpose: Recognition of qualifications, resolution of irregularities,validation of vocational experience

• Summary: Outline of academic achievements, practical training,

institutional correspondence

• Attachments: List of pocket sections and key documents (e.g.,

transcripts, certificates, affidavits)

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Social Media & Business

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The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal

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• Your company must be a small business (fewer than 500 employees) located in the United

States. Please note that the size limit of 500 employees includes affiliates.

• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,

and all funded work needs to take place in the United States (including work done by consultants

and contractors).

• Primary employment is defined as at least 51 percent employed by the small business. NSF

normally considers a full-time work week to be 40 hours and considers employment elsewhere

of greater than 19.6 hours per week to be in conflict with this requirement.

• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the

funded project, per six months of project duration.

*For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using*

*https://www.sbir.gov/sites/default/files/elig\_size\_compliance\_guide.pdf. Please note that these*

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*https://www.sbir.gov/sites/default/files/elig\_size\_compliance\_guide.pdf. Please note that these*

*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.*

*7.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the

**Advanced Manufacturing (M)** on **12/18/2024**.

1. Submitter Email

tshingombefiston@gmail.com

2. Submitter First Name

tshingombe

3. Submitter Last Name

tshitadi

4. Submitter Phone Number

0725298946

5. Company Name

Engineering electrical tshingombe

6. Company Zip Code

10300

7. Company State

AK

8. Company Website

htpps//:www.tshingimbefiston.com

9. SBIR/STTR topic that best fits your projects technology area

Advanced Manufacturing (M)

Are you eligible and interested in being considered for the NSF Fast-Track program?

Yes

Please provide details of the NSF research funding relied upon to meet the eligibility

requirements, including: NSF research award number(s); the proposing company personnel

involved in each of the listed research awards and their roles in the research awards; and a brief

explanation of how the cited research funding relates to the proposed Fast-Track project. (up to

150 words)

Engineering electrical master skill ,manufacture

Please provide details of the customer discovery training relied upon to meet the eligibility

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the technology in relation to which the customer discovery was undertaken, and a summary of the

customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech

Please check the appropriate box below to indicate whether the proposing Fast-Track team will

be complete at the time of proposal submission.

Yes

10. Is this Project Pitch for a technology or project concept that was previously submitted as a full

proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?

Yes

Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

proposal ?

1234567

Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to

discuss this prior full proposal submission?

Engineering electrical

11. Has your company received a prior NSF SBIR or STTR award?

Yes

Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I

proposal ?

1234567

12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?

Yes

13. Briefly Describe the Technology Innovation?engineering electrical- Proposal of thesis content / final project

Content

1 .name of thesis

2.index

3. Introduction.

4.description .

5.general.analizing

6.current information .

7.discussion

8 conclusion.

9. Bibliography.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.Name of thesis : implementation and framework national qualification

and national trade examination circulum experimental job theoretical

pratical college and government policy LMS in engineering studies

science electrical businesses module: case studies rsa in dhet,saqa ,

St peace college

2. Index: topic achieve research advance field basic field , essential

filling research circulum, fundation intermediate,elementaire

3.Introduction : the core and research advanced field experience of

sciences engineering electrical study and implement programme in social

education and industrial trade vocational career productu sector in

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re implement system information management system sector opportunity

and through activities investment horizontal creation of equitable

distribution: transformer science engineering and electrical product

method learn capacity generative intelligence systems of linear

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that they haveA Mon other aspirations Isreal parameter real power factor

and Imagineer power factor ,, need to resolved system exper and

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rising unemployment capacity industrial trademarks society system and

materials adequately support trade training QMS system information

commissioner,to under utilities in the address desterious policy design

implementation ,

5. General analysis: in order to break the successful it has become

social contract principle in

14. Briefly Describe the Technical Objectives and Challenges?Engineering-6 current information:

In working to formatted a trade framework qualic

For the turnaround ,the following

- objective.

- the diagnosis the fundamental strategies instituts framework

qualicafition national equivalent national trade international sector

approval occupation council trade council engineering sector portal

career design to synchronise system adaptative sector LMS learner

engineering competition grade post senior principal, engineering

electrical ,tradesman wire ,cadet minim system up date successful system

in design grade operational, framework award qualifition research

undertake material test week conductor atom technical engineering

innovation learn teach research mark method marks need to implement

adaptative system , research topics circulum regulation irregularity

material script, backlog system , combination system ,printer and system

need to make synchronise system deploy generative job framework

undercover job in next generation must going

- to discern and isolate the sicio economic environment engineering

system trade safety security police , commissioner trade need to meet

requirements qualicafition framework and the framework must also show in

the social successful but framework it increases by outage loadshedding

and social down to declined empirical experiemental in other

contemporary ,the regret filled job no successful for time table printer

system or computers system experiemental make design advanced research ,

-7. discussion the objective is to explore that strategies and situation

where Rapide performance import. Trade theory..

- conclusion:

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trade framework qualifications need to requalification system was

temporarily qualify expire system in job work sector training and

regulations system industrial system need cpd to continue system and

subject short and gate more skill job was slow operational field basic

in basic was poorly no attandance system advance essential field job

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in the same ways Orders orientation industrial, imperative hard, largely

,the research interest and how a fruit full common,ground can be

established.

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Engineering electrical science make in order to stabilize thought

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Policy commissioner vs learn vs teacher vs ,, framework national trade

vs company property intellectuel business electrical system need to

meeting...wrong model design topic ,, research rural energy design

framework , and orientation system learner teach career mentor

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Design two g city design systeme economic revenue bank system portal

need sector trade to work in place electrical designer b Poste trade

case research job workplace resulted was recruited need printer pool

position rank no waiting

- 8 bibliography:

- tshingombe 2023\_2924 < Poe's published,,educ technology, magazine net

database, St peace college.

Record book completed

- web TVET dhet ,saqa wab

- alu

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Graduation procedure form . congratulations programme , diploma .

-1 data verification.

- grade | description| point | numeracy

15. Briefly Describe the Market Opportunity?

engineering electrical

16. Briefly Describe the Company and Team?

Engineering electrical master

17. How did you first hear about our program?

NSF email, webinar, or event

**NSF SBIR/STTR Phase I Eligibility Information:**

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*9.* **To submit an Executive Summary, click on the "Submit New Application" button on the right. To access any Executive Summary you may have submitted before, see the list of past Executive Summaries below.**

My Submissions

Navigation Mode

| [**Sort by:Executive Summary ID**](javascript:void(0);)**Sorted: None** |
| --- |
|  | [**Sort by:Academic Institution**](javascript:void(0);)**Sorted: None** |

|  | [**Sort by:Entrepreneurial Lead**](javascript:void(0);)**Sorted: None** |
| --- | --- |

|  | [**Sort by:Technical Lead**](javascript:void(0);)**Sorted: None** |
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|  | [**Sort by:I-Corps Mentor Lead**](javascript:void(0);)**Sorted: None** |
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|  | [**Sort by:I-CORPS Program**](javascript:void(0);)**Sorted: None** |
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|  | [**Sort by:Agency Applying From**](javascript:void(0);)**Sorted: None** |
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|  | [**Sort by:Status**](javascript:void(0);)**Sorted: None** |
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|  | [**Sort by:Submitted Date**](javascript:void(0);)**Sorted: None** |
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| --- |
| **P-10307** | atlantic international university and college degree | tshingombe tshitadi | tshingombe tshinombe | tshingombe tsitadi | NSF PFI grantee | Other Agency | New | 8/15/2025 |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P-09948** | Atlantic international university | tshingombe tshitadi | tshingombe tshitadi | tshingombe tshitadi | Hub Sponsored | Other Agency | Declined | 2/3/2025 |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P-09874** | Engineering electrical tshingombe | tshingombe tshitadi | tshingombe tshitadi | tshingombe tshitadi | Hub Sponsored | Other Agency | Declined | 12/19/2024 |  |

Showing 1-3 of 3 records | Page 1 of 1

I-Corps Executive Summary ID :

P-10307

Academic Institution :

atlantic international university and college degree

Entrepreneurial Lead :

tshingombe tshitadi

Entrepreneurial Lead Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

Entrepreneurial Lead Qualification :

engin

Technical Lead :

tshingombe tshinombe

Technical Lead Email :

[Emailtshingombekb@gmail.com](mailto:tshingombekb@gmail.com)

Technical Lead Qualification :

engineering

I-Corps Mentor :

tshingombe tsitadi

I-Corps Mentor Email :

[Emailtshingombekb@gmail.cm](mailto:tshingombekb@gmail.cm)

I-Corps Mentor Qualification :

enginering

Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :

Technical Lead (TL)

Is your team submitting from another federal agency? If so, please select from the drop down below :

Other Agency

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :

Relevant current/previous NSF research award

What is the IP status of the innovation :

Not disclosed to tech transfer office

Brief Description of Technology (Intellectual Merit) :

**🧭 1. Career Center Discovery Framework**

**🎓 Education-to-Career Progression**

A developmental pathway from grade school to professional roles:

* **Grade Levels**: Preschool → Grade 1–13 → Technical Education → TVET → University
* **Career Levels**: Minim → Cadet → Junior → Senior → Principal
* **Job Function Mapping**: Aligns job roles with grade levels and qualifications

**🧠 Psychometric Assessment Services**

* **Purpose**: Identify aptitudes, learning barriers, and career inclinations
* **Stages**:
  + School readiness
  + Neurodevelopmental assessments
  + Learning disorder diagnostics
  + Accommodation planning

**🧒 2. Life Stage Development (Ages 0–80)**

**📘 Key Phases**

* Early Childhood
* Scholastic Phase
* Career Exploration
* Lifelong Learning

**🧪 School Readiness & Learning Support**

* Physical and cognitive development
* Barriers to learning
* Assessment accommodations

**💻 3. ICT & Technical Skills Academy (Sci-Boni)**

**📧 Contact:** [**it@sci-boni.co.za**](mailto:it@sci-boni.co.za)

**🧑‍💻 Youth Training (Ages 18–25**

Brief Description of Commercial Applications (Broader Impacts) :

       Provides **benchmarking** against NSQF standards

**✅ Portfolio-Based Assessment**

       Each task yields tangible artifacts and measurable outcomes

       Ideal for **learner exhibitions**, **competency tracking**, and **evidence-based evaluation**

**✅ Instructor Development**

       Clear procedural steps

       Embedded formative assessment

       Emphasis on logic reasoning and circuit behavior

Would you like help designing a **rubric for logic gate testing**, a **portfolio template for regulated power supply builds**, or a **crosswalk between NSQF and South African NQF standards**? I can also assist in developing a **learner tracking sheet** for workshop performance or a **project exhibition framework**.

This final portion of **Exercise 4.1.173** from the *Electrician Trade Practical Manual – NSQF Level 5* completes a robust exploration of **digital logic gates**, both using discrete components and integrated circuits (TTL and CMOS families). It’s a powerful exercise for developing foundational digital electronics skills, and it aligns beautifully with your goals of portfolio-based assessment, competency tracking, and curriculum reform.

Let’s summarize and structure the instructional design, then explore how it can be transformed into high-impact learning and evaluation tools.

**🔧 Exercise 4.1.173: Practice on Various Logics Using Logic Gates and Circuits**

**🎯 Learning Objectives**

By the end of this exercise, trainees will be able to:

       Construct and verify OR, AND, and NOT gates using switches, lamps, and ICs

       Understand and apply truth tables for basic logic gates

       Identify and test TTL and CMOS logic ICs (7408, 7432, 7404, CD4079)

       Measure voltage levels and interpret logic states

       Use digital IC testers and verify gate functionality

**🧪 Key Tasks and Logic Gate Implementation**

**✅ Task 1–3: OR and AND Gates Using Switches and Lamps**

| **Gate Type** | **Method** | **Verification** |
| --- | --- | --- |
| OR | Switches + Lamp | Truth table (A + B) |
| AND | Switches + Lamp | Truth table (A · B) |

**📊 Sample Truth Table (AND Gate)**

| **A** | **B** | **Voltage A** | **Voltage B** | **Output Y** | **LED Status** |
| --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0V | 0V | 0 | OFF |
| 0 | 1 | 0V | 5V | 0 | OFF |
| 1 | 0 | 5V | 0V | 0 | OFF |
| 1 | 1 | 5V | 5V | 1 | ON |

**✅ Task 4: AND Gate Using IC 7408**

       Wire gate-1 (pins 1, 2 → 3) and test logic combinations

       Repeat for gate-2 (pins 4, 5 → 6), gate-3 (pins 9, 10 → 8), gate-4 (pins 12, 13 → 11)

       Record outputs and verify truth table

Brief Description of Current Commercialization Plan :

       Provides **benchmarking** against NSQF standards

**✅ Portfolio-Based Assessment**

       Each task yields tangible artifacts and measurable outcomes

       Ideal for **learner exhibitions**, **competency tracking**, and **evidence-based evaluation**

**✅ Instructor Development**

       Clear procedural steps

       Embedded formative assessment

       Emphasis on logic reasoning and circuit behavior

Would you like help designing a **rubric for logic gate testing**, a **portfolio template for regulated power supply builds**, or a **crosswalk between NSQF and South African NQF standards**? I can also assist in developing a **learner tracking sheet** for workshop performance or a **project exhibition framework**.

This final portion of **Exercise 4.1.173** from the *Electrician Trade Practical Manual – NSQF Level 5* completes a robust exploration of **digital logic gates**, both using discrete components and integrated circuits (TTL and CMOS families). It’s a powerful exercise for developing foundational digital electronics skills, and it aligns beautifully with your goals of portfolio-based assessment, competency tracking, and curriculum reform.

Let’s summarize and structure the instructional design, then explore how it can be transformed into high-impact learning and evaluation tools.

**🔧 Exercise 4.1.173: Practice on Various Logics Using Logic Gates and Circuits**

**🎯 Learning Objectives**

By the end of this exercise, trainees will be able to:

       Construct and verify OR, AND, and NOT gates using switches, lamps, and ICs

       Understand and apply truth tables for basic logic gates

       Identify and test TTL and CMOS logic ICs (7408, 7432, 7404, CD4079)

       Measure voltage levels and interpret logic states

       Use digital IC testers and verify gate functionality

**🧪 Key Tasks and Logic Gate Implementation**

**✅ Task 1–3: OR and AND Gates Using Switches and Lamps**

| **Gate Type** | **Method** | **Verification** |
| --- | --- | --- |
| OR | Switches + Lamp | Truth table (A + B) |
| AND | Switches + Lamp | Truth table (A · B) |

**📊 Sample Truth Table (AND Gate)**

| **A** | **B** | **Voltage A** | **Voltage B** | **Output Y** | **LED Status** |
| --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0V | 0V | 0 | OFF |
| 0 | 1 | 0V | 5V | 0 | OFF |
| 1 | 0 | 5V | 0V | 0 | OFF |
| 1 | 1 | 5V | 5V | 1 | ON |

**✅ Task 4: AND Gate Using IC 7408**

       Wire gate-1 (pins 1, 2 → 3) and test logic combinations

       Repeat for gate-2 (pins 4, 5 → 6), gate-3 (pins 9, 10 → 8), gate-4 (pins 12, 13 → 11)

       Record outputs and verify truth table

Status :

New

Submitted Date :

Aug 15, 2025

I-Corps Executive Summary ID :

P-09948

Academic Institution :

Atlantic international university

Entrepreneurial Lead :

tshingombe tshitadi

Entrepreneurial Lead Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

Entrepreneurial Lead Qualification :

Engineering electrical master,

Technical Lead :

tshingombe tshitadi

Technical Lead Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

Technical Lead Qualification :

Edition montesorie

I-Corps Mentor :

tshingombe tshitadi

I-Corps Mentor Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

I-Corps Mentor Qualification :

Intelligence it

Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :

Entrepreneurial Lead (EL)

Is your team submitting from another federal agency? If so, please select from the drop down below :

Other Agency

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :

Participating in a regional I-Corps Program

Current/Previous NSF Research Award # :

1

What is the IP status of the innovation :

Not disclosed to tech transfer office

Brief Description of Technology (Intellectual Merit) :

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Brief Description of Commercial Applications (Broader Impacts) :

Commercial applications are Cree system economic intelligence systems policy circulum cost education award money financial reward in circuit education means resolved quickly system education marking completing survey task job in industriel

Brief Description of Current Commercialization Plan :

Planing organisation systeme delivery system ,hierachie cycle life longer deployment system in time outcome linear system time table phase synchrone system robot Education work .chart team

Status :

Declined

Submitted Date :

Feb 3, 2025

**I-Corps Executive Summary Detail**

I-Corps Executive Summary ID :

P-09874

Academic Institution :

Engineering electrical tshingombe

Entrepreneurial Lead :

tshingombe tshitadi

Entrepreneurial Lead Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

Entrepreneurial Lead Qualification :

Engineering electrical

Technical Lead :

tshingombe tshitadi

Technical Lead Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

Technical Lead Qualification :

Information technology

I-Corps Mentor :

tshingombe tshitadi

I-Corps Mentor Email :

[Emailtshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)

I-Corps Mentor Qualification :

Information

Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :

Entrepreneurial Lead (EL)

Is your team submitting from another federal agency? If so, please select from the drop down below :

Other Agency

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :

Relevant current/previous NSF research award

Current/Previous NSF Research Award # :

Engineering

What is the IP status of the innovation :

Patent issued

Patent Number :

1234567891234567891

Brief Description of Technology (Intellectual Merit) :

Engineering electrical award degre diploma framework qualifications graduate resarch national trade diploma regulation certificate outcome job assessments enginering electrical master advance technologie implementation framework language..

Brief Description of Commercial Applications (Broader Impacts) :

Engineering electricsl frameworks low ruling irregularity regulation bsck log delivery

Brief Description of Current Commercialization Plan :

Planning auditing enginering electrical snf onformstion intellectual computer project ..portofolio

Status :

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| **00098889** | tshingombe tshitadi | tshingombefiston@gmail.com | 0725298946 | Engineering electrical tshingombe | Decline | Energy Technologies (EN) | Yes |  | 2/25/2025 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **00097898** | tshingombe tshitadi | tshingombefiston@gmail.com | 0725298946 | Engineering tshingombe | Decline | Adv. Systems for Scalable Analytics (AA) | No |  | 2/3/2025 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **00095759** | tshingombe tshitadi | tshingombefiston@gmail.com | 0725298946 | Engineering electrical tshingombe | Decline | Advanced Manufacturing (M) | Yes |  | 12/18/2024 |  |

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build

succeeded Mar 15, 2024 in 5s

Beta Give feedback

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Determining the checkout info

Checking out the ref

/usr/bin/git log -1 --format='%H'

'76fb7a88c75b72824ac138782ca3220dbb7de621'

0s

Run echo Hello, world!

Hello, world!

0s

Run echo Add other actions to build,

Add other actions to build,

test, and deploy your project.

0s

Post job cleanup.

/usr/bin/git version

git version 2.43.2

Temporarily overriding HOME='/home/runner/work/\_temp/97b82adb-aa33-4005-a32b-b414b5ef0e87' before making global git

config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/t5h2i0tadi/t5h2i0tadi

/usr/bin/git config --local --name-only --get-regexp core\.sshCommand

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git config

--local --unset-all 'core.sshCommand' || :"

/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader

http.https://github.com/.extraheader

/usr/bin/git config --local --unset-all http.https://github.com/.extraheader

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\.https\:\/\/github\.com\/

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| |  | | --- | | Ruth Shuman <rshuman@salesforce.nsf.gov> | | | | Fri, Aug 15, 6:31 PM (3 days ago) |
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### Case #117972802

  Open

Created date: 18 Aug 2025, 12:00

Contact: Tshingombe fiston

Account: Tshingombe engineering (Pretoria, ZA)

Resolving agent: Assignment in progress

Request subject: engineering cvs technical documentation task job expert assessement project librarie catalogue guide

Request details: expert assessemnt research librarie casebook task expert assessment career text book career adanceed jon cvs, technical documentation replacement english business work external career center discovery science education librarie and college academic librarie value

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# Schneider Electric Data Privacy Policy

### 1. Changes to this Privacy Policy

**Schneider Electric may modify this Privacy Policy as needed. This new Privacy Policy has evolved since its last update to include newly required legal disclosures. This Privacy Policy is effective as 13 January 2023.**

Schneider Electric reserves the right to modify this Privacy Policy as needed, for example to comply with evolutions in laws, regulations, Schneider Electric practices and procedures, or requests by supervisory authorities.  
  
In this case, Schneider Electric will inform impacted individuals of material changes in this Privacy Policy. Schneider Electric will post new versions on relevant internal and external websites and digital platforms.  
  
The main changes and reasons for changes between the current version of this Privacy Policy and the previous version are the following:

* Consistent wording across Schneider Electric digital platforms and increased transparency on data processing and protection practices;
* Changes to address new regulatory requirements resulting from the CCPA (California Consumer Privacy Act);
* Specifying in our Cookie Notice examples of cookies and similar technologies we use.

### 2. Why this Privacy Policy?

**Schneider Electric is committed to protecting your privacy and personal information. This Privacy Policy informs you of our privacy practices and of how personal information is protected. You should read it before accessing Schneider Electric digital content.**  
  
Schneider Electric strongly supports the fundamental rights to privacy and data protection as well as compliance with national and international privacy laws.  
  
This Privacy Policy describes how Schneider Electric processes and protects personal information of individuals who use our websites and other digital platforms as well as in the context of our offline business activities.  
  
Schneider Electric has adopted an internal Global Data Privacy Policy which is applicable to all our subsidiaries for the collection, processing, use, dissemination, transfer and storage of personal information. It imposes common rules for all of our subsidiaries of all countries and aims at ensuring a high level of protection of personal information within Schneider Electric.  
  
Schneider Electric has also established this Privacy Policy as an external publication of our Binding Corporate Rules (“BCR”), approved by data protection supervisory authorities of the European Union in November 2012 for the processing of personal information from the EEA as a data controller. In the Schneider Electric’s Binding Corporate Rules, we respect and take into account the major principles of EU data protection rules as one of our Head Offices is located in the European Union.

### 3. What is the scope of this Privacy Policy?

**This Privacy Policy applies to all Schneider Electric subsidiaries and digital content, unless a specific privacy notice has been released to supplement it or to replace it. You should check the privacy notices made available to you on each digital platform such as websites or applications.**  
  
This Privacy Policy describes how Schneider Electric processes and protects personal information of consumers and professionals with whom we do business online and offline, such as the individuals who use our websites and other digital platforms as well as in the context of our consumer products  
  
If you have applied for employment with Schneider Electric, the personal information submitted with your job application will be used for recruitment and other customary human resources purposes as specified in the applicable privacy statement provided in our Career Center.  
  
Schneider Electric is a global company, with legal entities, business processes, management organizations, and system infrastructure that cross borders. This Privacy Policy applies to all Schneider Electric data processing activities run by our controlled subsidiaries, including product and service offerings and digital content (e.g. event registrations, websites, applications, tutorials, e-trainings, newsletters, advertising, and other communication). It may however be supplemented by a more specific privacy notice/statement/policy or even superseded by another policy, specific to a particular Schneider Electric program, product, service, content or entity. It is important that you read the statements made available to you for your full information. For instance, the processing of job candidate applications is governed by the privacy notice posted on our Career Portal.  
  
The data controllers of the data processing activities are the Schneider Electric subsidiaries who have determined the data processing means and purposes. They may vary on a case-by-case basis. For information you can contact us at Global-Data-PrivacyATschneider-electric.com [Replace in the address AT by @]  
  
This Privacy Policy binds all Schneider Electric controlled subsidiaries, and their employees.  
  
Any order made by you online is also subject to the terms and conditions provided on the relevant sites. You must read them.

### 4. Why do we collect and use personal information?

**We use personal information for various purposes, including to fulfill orders and requests, to manage customer and prospect relationships, conduct surveys, improve our products, services, digital content, our websites and mobile applications as well as user journeys, manage user accounts and programs, analyze activities on our digital platforms, run marketing activities such as online targeting and advertising, provide user with contextual and relevant information, ensure the security of our activities, finance and quality control, trainings, reportings and analytics, protect against fraud, and, more generally, run our business activities.**  
  
Our primary goal in collecting information is to provide you with superior service and a smooth, efficient and personalized experience while using our digital content.  
  
You can find more information in section 7.

### 5. What type of personal information do we process?

**Schneider Electric processes various types of personal information including identity and contact related information, professional related information, information about preferences, interactions with us, financial related information, online traffic data and the content you provide to us. In most instances this information is obtained from customers, partners and users. We also purchase lists from marketing agencies and obtain information from our partners, through Cookies and social networks.**  
  
Personal information (also called personal data) is any information relating to an identified or identifiable individual. An identifiable individual is one who can be identified, directly or indirectly, in particular by reference to an identifier or to one or more factors specific to his physical, physiological, mental, economic, cultural or social identity.  
  
This Privacy Policy does not cover personal information rendered anonymous, that is if individuals are no longer identifiable or are identifiable only with a disproportionately large expense in time, cost, or labor. If anonymized data becomes identifiable, then this Privacy Policy shall apply.  
  
In most instances we collect personal information directly from users who have a business relationship with us. We may also obtain information through a reseller or a business partner, by purchasing customer lists from marketing agencies, from your online browsing experience, from social networks when you connect with these network’s credentials and through Cookies.  
  
You can find more information in section 7.

### 6.  Why do we disclose personal information to others?

**We disclose personal information to other Schneider Electric subsidiaries and to our suppliers, advertising and marketing agencies, with social networks if you use their login credentials, with other companies if you register with Schneider Electric credentials, competent regulatory bodies and authorities and business successors.**    
  
Schneider Electric is a global group of companies which works as one. To provide the best service to customers, prospects and users, personal data may be accessed by personnel working for different entities. It may be the case, for example, for customer relationship management, sales or product support, marketing, product development purposes, improvement of the products, services and digital content, data quality checks, or security, finance, regulatory and compliance purposes.  
  
We resort to supplier to carry out data processing activities and to provide our products, services and online content to you. These suppliers include, without limitation, providers of hosting facilities, information systems, advertising and marketing agencies, IT support, security services, financial services, carriers who deliver products, outside accounting firms, lawyers and auditors.  
  
We ensure all suppliers working under contract for Schneider Electric are compliant with data privacy laws and aligned with Schneider Electric guidelines.  
  
We also disclose personal information as follows:

* In connection with the provisions of our products and services, we may disclose personal information to (and receive personal information from) those partners that provide product or service functionality.  For example, we may partner with companies to integrate smart home functionality into our smart home hardware products. These disclosures are necessary for you to utilize the products and features.
* In connection with the provision of advertising, we may share some limited personal information (e.g. device identifiers, Cookie identifiers) with ad exchanges or agencies that manage advertising on third-party websites and apps on which you may see advertising. You can restrict this sharing by exercising Your Privacy Choices .
* You may access our digital content and/or register through login credentials of third-party websites (such as Facebook and LinkedIn). If you do so, we will be able to access some of the information you registered on these social networks, to assist you to pre-fill the registration form for Schneider Electric digital content. By using the login credentials of these third-party websites, you may at the same time inform your contacts on these sites that you have created an account with Schneider Electric. If you want to know more about the information accessible by your contacts on these sites and how to restrict their communication, we encourage you to read their terms of use and privacy policies.
* Schneider Electric may disclose your personal information as necessary to potential buyers and successors in title, to facilitate a merger, consolidation, transfer of control or other corporate reorganization in which Schneider Electric participates.
* In other ways described in this Privacy Policy or to which you have otherwise consented.
* Aggregated with other information, in such a way that your identity cannot reasonably be determined (for example, statistical compilations).

You can find more information in section 7.

We will not sell or rent your personal information for monetary consideration to a third party without your permission.

### 7. Categories of personal information, purposes and disclosures

| **Category of Personal Information, Representative Data Elements and Sources** | **Purpose for Collecting and Sharing the PI** | **Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose** |
| --- | --- | --- |
| Contact Information   * Name * Username * Mailing address * Email address * Telephone number * Mobile number   We collect this type of information from:   * You * Third parties, such as companies that help us maintain the accuracy of our data and data aggregators that help us complete and enhance our records   We may obtain business contact information from data aggregators and other entities services, such as LinkedIn, event and trade shows, and our commercial customers. | We use this type of information to identify you and communicate with you, including:   * To send transactional/operational messages (such as confirmations, or delay in deliveries) * To register and manage your account * To send marketing communications, surveys (satisfactory and marketing), and invitations to our digital/physical events * To support corporate transactions or reorganizations * To personalize our communications and provide customer service * For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and to Service Providers, including to social media companies that use the data only to identify which of our customers use their platforms so that we can deliver ads to you on the platform.   * Companies that deliver our communications, such as the postal service and couriers * Companies that assist us with address hygiene and fulfillment * Other entities as required by law |
| Relationship information We collect personal information about business professionals associated with our commercial customers, suppliers and partners in the context of our relationships we have with these companies. This includes:   * Information about your authority to use our products and place orders with us * Professional interests and credentials * Relationship information, including marketing and communication preferences * Business interests and preferences (product, contact, marketing) * Opportunity information (description, category, stage…) * Visitor logs * Loyalty and rewards program data * Household demographic data, including census data * Data from social media profiles   We collect this type of information from you and from your company. We may receive your data from other entities, such as trade associations or trade shows. | We use this type of information:   * To fulfill our business relationship with you and/or our client * To develop and maintain our relationship with you and our client, including sending your marketing communications as permitted by law and subject to your preferences * To better understand you and to understand our customers generally * For product and service development and improvement * To identify prospective customers * For internal business purposes, such as finance, quality control, training, reporting and analytics * For risk management, fraud prevention and similar purposes * For recordkeeping and compliance, including dispute resolution | We may disclose this type of information to our Subsidiaries and Service Providers and to:   * Companies with whom we have joint marketing and similar arrangements * Companies as needed to complete the transaction, including delivery companies, agents and manufacturers * Our lawyers, auditors and consultants * Customers, in connection with their audits of Schneider Electric * Other entities as required by law |
| Transaction and Interaction Information   * Account information and related records, including purchase history, payment information and history * Records related to use of our websites and apps * Records related to use of our products and devices Authentication data (passwords, account security questions) * Customer service records * Visitor logs   We collect this type of information from:   * You or your company * Third parties that process transactions for us, such as resellers and sales agents * Automatically, such as from connected devices | We use this type of information:   * To fulfill our business relationship with you, including customer service * For recordkeeping and compliance, including dispute resolution * For internal business purposes, such as finance, quality control, training, reporting and analytics * For risk management, fraud prevention and similar purposes * For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:   * Companies with whom we have joint marketing and similar arrangements * Companies as needed to complete the transaction, including delivery companies, agents and manufacturers * Our lawyers, auditors and consultants * Customers, in connection with their audits of Schneider Electric * Other entities as required by law |
| Inferred and Derived Information   * Propensities, attributes and/or scores generated by internal analytics programs   We create inferred and derived data elements by analyzing our relationship and transactional information. | We combine inferred data with other relationship information and use this type of information:   * To better understand you and to understand our customers generally * For product and service development and improvement * For internal business purposes, such as quality control, training and analytics * For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:   * Companies with whom we have joint marketing arrangements * Our lawyers, auditors and consultants * Other third parties as required by law |
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| IoT and Sensor data   * Commands, usage and other data collected, computed or produced by smart home and connected products (such as home automation, energy management, safety and security, and electrical products) and their associated apps * Diagnostics data (such as context and description of detected errors) Geolocation data * We collect this type of information automatically from your connected devices. | We use this type of information:   * To provide the services * To improve and modify product, and create any new products, services and solutions, * To generate business and/or sales with you * To allow compliance and/or enforcement of legal requirements. * To enable product functionality * For internal business purposes, such product development, security, and quality control * For relationship purposes, including analytics regarding product usage * For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers, to:   * Companies that assist with our information technology and security programs, including network security services and cybersecurity consortia * Companies that assist with fraud prevention, detection and mitigation * Other companies, such as technology partners, as needed to complete the transactions including entities that provide products and services that you connect with ours * Our lawyers, auditors and consultants * Other entities as required by law |
| Audio Visual Information We collect this type of information from:   * Photographs • Video images • CCTV recordings • Call center recordings and call monitoring records Voicemails * We collect this type of information from: * You * Automatically, such as when we record calls to our call center and use CCTV cameras in our facilities. * Third parties that provide access to photos and videos you make publicly available, such as on social media | We use this type of information:   * For internal business purposes, such as call recordings used for training, coaching or quality control * For relationship purposes, such as use of photos and videos for social media purposes * For premises security purposes and loss prevention * For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:   * Companies that assist with our information technology and security programs, and our loss prevention programs * Our lawyers, auditors and consultants * Other entities as required by law |
| Compliance data We collect this type of information from:   * Compliance program data, such as records maintained to demonstrate compliance with applicable laws * Product safety data and other regulatory information * Records related to consumer preferences, such as your opt-ins and opt-outs of marketing programs * Records related to CCPA rights requests   We collect this type of information from:   * You * Third parties, including companies that help us conduct internal investigations * Third parties, such as consumer reporting agencies and data aggregators who conduct background screening for us | We use this type of information:   * To comply with and demonstrate compliance with applicable laws * For legal matters, including litigation and regulatory matters, including for use in connection with civil, criminal, administrative, or arbitral proceedings, or before regulatory or self-regulatory bodies, including service of process, investigations in anticipation of litigation, execution or enforcement of judgments and orders * For internal business purposes, such as risk management, audit, internal investigations, reporting, and analytics * For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:   * Our lawyers, auditors and consultants. * Regulators, customers and other third parties, in connection with their audits of Schneider Electric * Other entities (including government agencies, courts and opposing law firms, consultants, process servers and parties to litigation) in connection with legal matters |

### 8. Your content

**You may choose to contribute content, including photos or comments, to online forums, applications or other digital platforms operated by Schneider Electric. Your content must be harmless. It must respect the law, the rights and interests of others. You need to have obtained consent before sharing someone else’s data. You should apply caution before sharing information in a forum.**  
  
The content provided to us must respect the rights and interests of others, including their rights to protection of personal information and privacy. It should not be offensive, disrespectful or be harmful in any way.  
  
Any provision of personal information to Schneider Electric about another individual must be compliant with privacy laws, including with notice and consent requirements for the disclosure of that information.  
  
While Schneider Electric strives to protect your personal information, providing it online on shared forums is not risk-free. If you post, comment, indicate interest, or share personal information, including photographs, to any forum, social network or blog, please be aware that any personal information you submit can be read, viewed, collected, or used by other users of these forums, and could be used to contact you, send you unsolicited messages, or for purposes that neither you nor Schneider Electric have control over. Schneider Electric is not responsible for the personal information you choose to submit in these forums. You should apply caution before deciding to share information about yourself or another person.

### 9. How do we protect personal information?

**Schneider Electric complies with widely recognized key data protection principles (fairness, purpose limitation, data quality, data retention, compliance with individuals’ rights, security) and takes reasonable measures for the security of personal information.**  
  
Schneider Electric respects the privacy rights and interests of individuals. Schneider Electric and its subsidiaries observe the following principles when processing personal information:

1. Processing personal information fairly and lawfully;
2. Collecting personal information for specified, legitimate purposes and not processing it further in ways incompatible with those purposes;
3. Collecting personal information which is relevant to and not excessive for the purposes for which it is collected and used. We may render information anonymous when feasible and appropriate, depending on the nature of the data and the risks associated with the intended uses;
4. Maintaining accurate personal information, and where necessary, kept up-to-date. We will take reasonable steps to rectify or delete information that is inaccurate or incomplete;
5. Keeping personal information only as long as it is necessary for the purposes for which it was collected and processed;
6. Processing personal information in accordance with individuals’ legal rights;
7. Taking appropriate technical, physical, and organizational measures to prevent unauthorized access, unlawful processing, and unauthorized or accidental loss, destruction, or damage to personal information;
8. When processing sensitive personal information, ensuring appropriate notice and consent or that the processing otherwise complies with applicable law;

Schneider Electric and all its subsidiaries must ensure that the above principles are complied with.  
  
Schneider Electric and its subsidiaries are committed to taking commercially reasonable technical, physical, and organizational measures to protect personal information against unauthorized access, unlawful processing, accidental loss or damage, and unauthorized destruction. We offer the use of secure servers to enable you to place orders or to access your account information. We implement access control measures for our internal systems that hold personal information. Authorized users are given access to such systems through the use of a unique identifier and password. Access to personal information is provided to our staff for the sole purpose of performing their job duties. We sensitize our employees on proper use and handling of personal information. We also require our service providers to maintain compliant security measures. We implement security measures to determine the identity of registered users, so that appropriate rights and restrictions can be enforced for these users. In case of a registered user, we use both log ins and passwords for authentication. You are responsible for maintaining the security of your log-in credentials.  
  
Schneider Electric will retain your personal information for as long as the information is needed for the purposes for which it was collected and for any additional period that may be required or permitted by law, such as for business, legal, accounting, or reporting requirements. The length of time your personal information is retained depends on the purpose(s) for which it was collected, how it is used, and the requirements to comply with applicable laws, regulations or contracts.    
  
More precise information is provided in privacy notices applicable to specific digital content. In general data retention periods are determined taking into consideration:

* The duration of our relationship (e.g., contract performance duration, account de-activation, your legitimate need to be recognized when contacted by us)
* Legal requirements for keeping data
* Statute of limitations

For marketing purposes, we keep relevant customer data for three years after the end of our relationship or since the last interaction with us.  
  
By using our digital content or providing personal information to us, you agree that we may communicate with you electronically or otherwise about related security, privacy, use and administrative activities.  
In spite of our efforts to implement appropriate security measures, online browsing carries inherent risks and we cannot guarantee that it is risk-free.

### 10. Third-party websites and social media

**You should read the privacy policy of third-party websites and social media and adjust privacy settings as you see fit. Non-Schneider Electric websites and platforms are not covered by this Privacy Policy.**  
  
Schneider Electric digital platforms may provide links to third-party applications, products, services, or websites for the user convenience and information. If you access those links, you will leave the Schneider Electric digital platform. Schneider Electric does not control those third-party sites or their privacy practices, which may differ from Schneider Electric’s practices. We do not endorse or make any representations about third-party sites. The personal information you choose to provide or that is collected by, these third parties are not covered by the Schneider Electric Privacy Policy. We encourage you to review the privacy policy of any site you interact with, before allowing the collection and use of your personal information.  
  
We also provide social media links that enable you to share information with your social networks and to interact with Schneider Electric on various social media sites. The use of these links may result in the collection or sharing of information about you. We encourage you to review the privacy policies and the privacy settings of the social media sites with which you interact to make sure you understand the information that may be collected, used, and shared by those sites and to adjust these settings as you see fit.

### 11. Your Privacy Choices

**Schneider Electric will comply with your data protection rights as applicable, including your rights to request access to your personal information and to request that it be deleted or amended. You can always opt out of any direct marketing activity performed by Schneider Electric.**  
  
This section tells you how to exercise your data protection rights, as applicable under relevant data protection laws, with respect to the personal information that we collect for our own business purposes. If we are processing your information as a service provider for another company, you will need to contact that company to exercise your rights:

* **Access requests**. You have the right to request a copy of the personal information that Schneider Electric maintains about you. To exercise this right, [please click here for our privacy request portal](https://privacyportal-eu.onetrust.com/webform/561c6e8f-10f4-45d2-bb12-430636ddb5e6/8be04d15-c000-4f03-aa4f-7349f4f9cf9c),
* **Correction requests**. You have the right to request that we update or correct your personal information.  To exercise this right, [please click here for our privacy request portal](https://privacyportal-eu.onetrust.com/webform/561c6e8f-10f4-45d2-bb12-430636ddb5e6/8be04d15-c000-4f03-aa4f-7349f4f9cf9c) and provide information about the correction that you wish us to make. We will process your request as required by law.
* **Deletion requests**. You have the right to request that we delete or anonymize your personal information.  To exercise this right, [please click here for our privacy request portal](https://privacyportal-eu.onetrust.com/webform/561c6e8f-10f4-45d2-bb12-430636ddb5e6/8be04d15-c000-4f03-aa4f-7349f4f9cf9c) . We will process your request as required by law. Please understand that Schneider Electric cannot delete personal information in those situations where our retention is required for our Schneider Electric’s internal business purposes or otherwise permitted by law (such as for fraud prevention or legal compliance).
* **Inquiries and complaints**. You have the right to ask us about our privacy practices or to lodge a complaint if you believe that we have violated your privacy rights or failed to properly secure your personal information. To exercise these rights, please email your specific question or concern to DPO@schneider-electric.com.
* **Right to Opt-Out**.  Subject to applicable laws, you have the right to opt out of certain types of processing, including:
  + to opt-out of the “sale” (as such term is defined under applicable law) of your personal information. However, Schneider Electric does not sell your personal information for monetary consideration.
  + to opt-out of online targeted advertising and the “sharing” of personal information for cross-contextual behavioral targeting: You can exercise this right by adjusting your browser settings (see our section How to control Cookies in Schneider Electric Cookie Notice) and [setting your cookie preferences here](https://www.se.com/us/en/about-us/legal/data-privacy.jsp).
  + to opt-out of any processing of personal information for purposes of making decisions that produce legal or similarly significant effects. However, Schneider Electric does not use any profiling or automated decision-making tools that significantly affect individuals. You would be given notice of any such activity.
  + to opt-out of emails, click the link labeled “unsubscribe” at the bottom of any email we send you or to revoke permissions that you may have given to send text messages, text STOP in response to any message.

If you have more than one email address or if you have changed your email address, please email [Global-Data-Privacy@schneider-electric.com](mailto:Global-Data-Privacy@schneider-electric.com) for assistance with changing your marketing preferences. Also, please note that even if you opt-out of commercial emails, we may still need to contact you with important transactional/operational information in relation to our relationship.

* **Limit the use of your sensitive personal information**: California residents have the right to limit secondary uses and disclosures of sensitive personal information. In general, Schneider Electric only uses and discloses sensitive personal information as needed to fulfill the purpose for which it was collected.  However, if you have provided sensitive personal information to us, you may ask us to delete it using the process above.

In some cases, we may need to contact you to verify your identity and to obtain documentation to support your request.  
  
Our websites also recognize Global Privacy Control signals if you are based in California or Virginia and will respect your opt-out request if it provided by your browser  
  
**California residents: please read the Important Information for California Residents for specific information about your California Privacy Rights and for alternative methods for submitting California Privacy Rights requests.**  
  
Country-specific sections may supplement this section.

### 12. Important information for California residents

Schneider Electric in the USA is providing this supplemental privacy notice to give California residents the additional information required by the California Consumer Privacy Act (the “CCPA”).  
  
Schneider Electric is primarily focused on serving business and professional customers, however do collect consumer data from individuals who provide it to us via our online forms or by otherwise interacting with our websites or apps.  We also receive consumer data in connection with our smart home products.  This supplemental privacy notice explains how we comply with the CCPA for consumer and business professional information.

### 12.1 CCPA Rights

The CPRA provides California residents with specific privacy rights:

* The right to know what personal information and sensitive personal information we collect
* The right to access your personal information
* The right to correct inaccurate personal information
* The right to request that we delete your personal information
* The right to know what categories of personal information are sold to third parties and to opt-out of that sale
* The right to know what categories of personal information are shared with third parties for cross-contextual behavioral targeting and to opt-out that sharing
* The right to limit the use and disclosure of sensitive personal information, and
* The right not to be retaliated against for exercising your privacy rights

### 12.2 How to Exercise Your Privacy Choices?

If you are a California resident, you may exercise your rights or authorize another person to act on your behalf by:

* Clicking here:  [Your Privacy Choices](https://privacyportal-eu.onetrust.com/webform/561c6e8f-10f4-45d2-bb12-430636ddb5e6/8be04d15-c000-4f03-aa4f-7349f4f9cf9c)
* Calling Schneider Electric at 800-789-3508
* Emailing us: Global-Data-Privacy@schneider-electric.com

Please note that we will need to verify your identity before we can fulfill your request. Because the information that we maintain subject to CCPA generally consists of marketing information, we will generally verify your identity using your email address. We will respond to requests using the email address that is associated with the information we maintain.  
  
If you are exercising CPRA access or deletion rights on behalf of another person, please understand that what will need to verify your authority with the person you seek to represent.  
  
If you would like to designate an agent, please send an email from your own email address to [Global-Data-Privacy@schneider-electric.com](mailto:Global-Data-Privacy@schneider-electric.com) indicating the name and email address of your agent. We will respond to that person’s requests using both your email address and the agent’s email address.  
  
Please understand that your rights are subject to some limitations. If you request that we delete your personal information, we will do so except in those situations where our retention is required for our internal business purposes, to finalize the ongoing business operations we have we you, to log your request or otherwise permitted by CCPA (such as for fraud prevention or legal compliance). In these situations, we will retain your information in accordance with our records retention program and securely delete it at the end of the retention period.  
  
Additionally, please note that many companies sell and install Schneider Electric products.  We do not operate these companies, and we do not have any access to their databases.  If you have registered with or purchased Schneider Electric products from another company, please contact that company directly to exercise your CCPA rights.

### 12.3 Financial Incentives

Schneider Electric collects personal information in order to deliver offers and promotions and to enable loyalty programs. While we cannot calculate the precise value of your information to us, our offers and incentives generally reflect the value of the relationships that we have with the individuals who participate in the program.   
  
We will not discriminate against you if you exercise your rights under CCPA. However, if you ask us to delete your information, you will not be able to receive additional offers or promotions. Any offers or promotions sent to you previously will continue to be honored according to their original terms.

### 12.4 Sensitive Personal Information

Schneider Electric uses and discloses the following categories sensitive personal information.  We do not process any sensitive personal information for the purpose of informing characteristics about you.

| **Category of Sensitive Personal Information** | **Purposes for Use and Disclosure** | **Can I limit this Use and Disclosure?** |
| --- | --- | --- |
| Government-issued Identification Numbers | We use and disclose Government-issued Identification Numbers in connection with payments made to professionals, for tax reporting and compliance. | No |
| Account log-in credentials | We use and disclose Account Access Information as needed to allow you to access your account, for account security purposes. | No |
| Financial account or payment card numbers | We use and disclose financial account and payment card numbers as needed to process transactions | No |
| Precise Geolocation Data | We may collect precise geolocation data in order to provide specific functionality related to the services. We also use it to deliver content to you based on your location. | Yes |
| Race or Ethnicity Disability Status Sexual Orientation | If you provide this information to us, we use and disclose these data elements in connection with our supplier diversity programs. | No |

We do not collect other categories of sensitive personal information, such as biometric identifiers, the contents of mail, email or texts, or other non -public information about your race, ethnicity, health, sex life or sexual orientation.

1. Personal information of children under 16 cannot be sold or shared without affirmative consent.
2. Schneider Electric’s Subsidiaries are companies that are directly or indirectly controlled by Schneider Electric SE.
3. ***Everyday Business Purposes*** encompasses the Business Purposes (as defined in the CCPA) and following related purposes for which personal information may used:
   * To provide the information, product or service requested by the individual or as reasonably expected given the context in which with the personal information was collected (such as customer credentialing, providing customer service, personalization and preference management, providing product updates, bug fixes or recalls, and dispute resolution);
   * For identity and credential management, including identity verification and authentication, and system and technology administration;
   * To protect the security and integrity of systems, networks, applications and data, including detecting, analyzing and resolving security threats, and collaborating with cybersecurity centers, consortia and law enforcement about imminent threats;
   * For fraud detection and prevention;
   * For legal and regulatory compliance, including all uses and disclosures of personal information that are required by law or reasonably needed for compliance with company policies and procedures, such as: anti-money laundering programs, security and incident response programs, intellectual property protection programs, and corporate ethics and compliance hotlines;
   * For corporate audit, analysis and reporting;
   * To enforce our contracts and to protect against injury, theft, legal liability, fraud or abuse, and to protect people or property, including physical security programs;
   * To de-identify the data or create aggregated datasets, such as for consolidating reporting, research or analytics;
   * To make back-up copies for business continuity and disaster recovery purposes; and
   * For corporate governance, including mergers, acquisitions and divestitures.

* Technical Expert Assessment (TEX) Request Form
* Rev. 01-00
* Internal
* Date:
* Case started already? If yes, please provide: Case #:
* Material Returned already? If yes, please provide: CNI/RMA #: Shipping Carrier & Tracking #:
* Material Exchanged already? If yes, please indicate at the bottom if we should return the material after analysis if credit is denied.
* Communication Preference
* Preferred Method of Contact:
* Email
* Phone
* Preferred Frequency:
* Daily
* Weekly
* Bi-Weekly
* Milestones
* Only if Delay
* Check the box next to who is to be the primary contact for communication.
* End User Information
* Distributor or OEM Information
* Company Name:
* Address:
* City:
* State:
* Zip:
* Customer Contact:
* Phone #:
* Email Address:
* Company Name:
* Address:
* City:
* State:
* Zip:
* Account #:
* Distributor/ OEM Contact:
* Phone #:
* Email Address:
* Technical Contact or Site Contact Information
* *(to provide technical detail about inoperative product)*
* Schneider Electric Representative Information
* Company Name:
* Address:
* City: State: Zip:
* Technical Contact:
* Phone #:
* Email Address:
* Name: Field Sales Rep?
* Location:
* Phone #:
* Email Address:
* Product Information
* Who should receive a copy of the analysis report?
* *Check all that apply*
* Q2C # / SO #:
* Quantity:
* PO #:
* Check box if material is in warranty
* Catalog/Part #:
* Series #:
* Return item if credit is denied?
* Serial # / Date Code:
* Yes
* No
* End User
* Distributor/ OEM
* Other
* Technical Contact Email:
* SE Contact
* Our Technical Support Team will contact the “Technical Contact” listed above to obtain detailed information regarding the inoperative
* product. Please provide a brief description below so that we understand the nature of your request.
* Issue/Problem Description
* *Please include where product is used (application)*
* **Technical Expert Assessment (TEX) Report Request Form**Top of Form

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Documentation

**Technical documentation**

Search for in-depth articles on Microsoft developer tools and technologies.

Top of Form



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Index

**Product directory**

Explore guides and articles by product.

* [.NET](https://learn.microsoft.com/en-us/dotnet/)
* [.NET MAUI](https://learn.microsoft.com/en-us/dotnet/maui/)
* [Adaptive Cards](https://learn.microsoft.com/en-us/adaptive-cards/)
* [ASP.NET Core](https://learn.microsoft.com/en-us/aspnet/core/)
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* [Dynamics 365 Customer Insights](https://learn.microsoft.com/en-us/dynamics365/customer-insights/)
* [Dynamics 365 Customer Service](https://learn.microsoft.com/en-us/dynamics365/customer-service/)
* [Dynamics 365 Field Service](https://learn.microsoft.com/en-us/dynamics365/field-service/)
* [Dynamics 365 Finance](https://learn.microsoft.com/en-us/dynamics365/finance/)
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* [Dynamics 365 Supply Chain Management](https://learn.microsoft.com/en-us/dynamics365/supply-chain/)
* [Java](https://learn.microsoft.com/en-us/java/)
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* [Microsoft Advertising](https://learn.microsoft.com/en-us/advertising/)
* [Microsoft Cloud](https://learn.microsoft.com/en-us/microsoft-cloud/)
* [Microsoft Compliance](https://learn.microsoft.com/en-us/compliance/)
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* [Microsoft Copilot Studio](https://learn.microsoft.com/en-us/microsoft-copilot-studio/)
* [Microsoft Defender](https://learn.microsoft.com/en-us/defender/)
* [Microsoft Edge](https://learn.microsoft.com/en-us/microsoft-edge/)
* [Microsoft Entra](https://learn.microsoft.com/en-us/entra/)
* [Microsoft Fabric](https://learn.microsoft.com/en-us/fabric/)
* [Microsoft Graph](https://learn.microsoft.com/en-us/graph/)
* [Microsoft Industry Clouds](https://learn.microsoft.com/en-us/industry/)
* [Microsoft Intune](https://learn.microsoft.com/en-us/mem/)
* [Microsoft Lifecycle Policy](https://learn.microsoft.com/en-us/lifecycle/)
* [Microsoft Mesh](https://learn.microsoft.com/en-us/mesh/)
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* [Microsoft Purview](https://learn.microsoft.com/en-us/purview/)
* [Microsoft Security](https://learn.microsoft.com/en-us/security/)
* [Microsoft Stream](https://learn.microsoft.com/en-us/stream/)
* [Microsoft Surface](https://learn.microsoft.com/en-us/surface/)
* [Microsoft Teams](https://learn.microsoft.com/en-us/microsoftteams/)
* [Microsoft Typography](https://learn.microsoft.com/en-us/typography/)
* [Microsoft Viva](https://learn.microsoft.com/en-us/viva/)
* [OData](https://learn.microsoft.com/en-us/odata/)
* [Open Specifications](https://learn.microsoft.com/en-us/openspecs/)
* [OpenAPI](https://learn.microsoft.com/en-us/openapi/)
* [Partner Center](https://learn.microsoft.com/en-us/partner-center/)
* [PlayReady](https://learn.microsoft.com/en-us/playready/)
* [Power Apps](https://learn.microsoft.com/en-us/power-apps/)
* [Power Automate](https://learn.microsoft.com/en-us/power-automate/)
* [Power BI](https://learn.microsoft.com/en-us/power-bi/)
* [Power Pages](https://learn.microsoft.com/en-us/power-pages/)
* [Power Platform](https://learn.microsoft.com/en-us/power-platform/)
* [Power Query M](https://learn.microsoft.com/en-us/powerquery-m/)
* [PowerShell](https://learn.microsoft.com/en-us/powershell/)
* [Semantic Kernel](https://learn.microsoft.com/en-us/semantic-kernel/)
* [SharePoint](https://learn.microsoft.com/en-us/sharepoint/)
* [SQL Server](https://learn.microsoft.com/en-us/sql/)
* [System Center](https://learn.microsoft.com/en-us/system-center/)
* [Sysinternals](https://learn.microsoft.com/en-us/sysinternals/)
* [Vcpkg](https://learn.microsoft.com/en-us/vcpkg/)
* [Visual Studio](https://learn.microsoft.com/en-us/visualstudio/)
* [Windows](https://learn.microsoft.com/en-us/windows/)
* [Windows Server](https://learn.microsoft.com/en-us/windows-server/)

**Recommended Resources**

* [**Startups**](https://www.microsoft.com/en-us/startups)

Get your businesses up and running with the Microsoft Cloud, growing your startup while ensuring security and compliance for your customers.

* [**Student Hub**](https://learn.microsoft.com/en-us/training/student-hub/)

Learn technical skills to prepare you for your future. Find training, virtual events, and opportunities to connect with the Microsoft student developer community.

* [**Educator Center**](https://learn.microsoft.com/en-us/training/educator-center/)

Dive deep into learning with interactive lessons, earn professional development hours, acquire certifications and find programs that help meet your goals.

* [**Microsoft Learn Blog**](https://techcommunity.microsoft.com/t5/microsoft-learn-blog/bg-p/MicrosoftLearnBlog)

Get the latest updates, articles, and news for learning content and events from the Microsoft Learn community.

* [**Virtual Training Days**](https://www.microsoft.com/en-us/trainingdays)

Take advantage of free Virtual Training Days, where participants of any skill level can build technical skills across a range of topics and technologies.

* [**Microsoft R**](https://developer.microsoft.com/en-us/reactor/)

[Skip to main content](https://learn.microsoft.com/en-us/plans/kozzh2tww8xw74#main)

[Learn](https://learn.microsoft.com/en-us/)

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Success! Your plan has been saved to your [profile](https://learn.microsoft.com/users/me/activity/).

Plan

# Discover Data Concepts and Implement Solutions with Microsoft Fabric

3 milestones

This plan covers data discovery, classification, and protection, alongside implementing data warehouses using Microsoft Fabric. You'll learn key technologies like Azure and Microsoft Fabric, and tasks such as data management and analytics.

* Edited on 8/18/2025
* Created by [tshingombe tshitadi](https://learn.microsoft.com/en-us/users/tshingombetshitadi-5294/) with AI on Microsoft Learn

Learning outcomes

* By the end of this plan, you'll be able to identify and apply core data concepts and roles in data management.
* By the end of this plan, you'll be able to implement a data warehouse using Microsoft Fabric, including loading and querying data.
* By the end of this plan, you'll be able to utilize Microsoft Purview for data discovery and protection.
*  

### Skills earned upon completion

## 3 milestones in this plan

Milestone 1

Progress:

0%

### Understand data concepts and core data principles

Learn fundamental data concepts, analytics, and roles using Microsoft Azure and SQL Server. This section covers data discovery, classification, and protection, essential for effective data management.

Days to milestone: 1

* Learning Path

[Understand data concepts](https://learn.microsoft.com/en-us/training/paths/understand-data-concepts/?ns-enrollment-type=Collection&ns-enrollment-id=odxxbgtmdyzzkd)

* + 3 modules
  + 1 hr 34 min

   Learning Path

[Introduction to Microsoft Azure Data core data concepts](https://learn.microsoft.com/en-us/training/paths/azure-data-fundamentals-explore-core-data-concepts/?ns-enrollment-type=Collection&ns-enrollment-id=odxxbgtmdyzzkd)

* 2 modules
* 59 min
* 

Milestone 2

Progress:

0%

### Implement data warehousing solutions with Microsoft Fabric

Explore the data warehousing process using Microsoft Fabric. Learn to load, monitor, secure, and query data warehouses, enhancing your data management skills.

Days to milestone: 3

* Learning Path

[Implement a data warehouse with Microsoft Fabric](https://learn.microsoft.com/en-us/training/paths/work-with-data-warehouses-using-microsoft-fabric/?ns-enrollment-type=Collection&ns-enrollment-id=odxxbgtmdyzzkd)

* + 6 modules
  + 5 hr 57 min

Implement a data warehouse with Mi...

    Learning Path

[Get started with Microsoft Fabric](https://learn.microsoft.com/en-us/training/paths/get-started-fabric/?ns-enrollment-type=Collection&ns-enrollment-id=odxxbgtmdyzzkd)

* 10 modules
* 10 hr 31 min
*  

Milestone 3

Progress:

0%

### Support data protection and cybersecurity solutions

Understand how Microsoft supports data discovery, classification, and protection in cybersecurity. This section focuses on essential data protection capabilities within M365 and Azure.

Days to milestone: 1

* Learning Path

[Learn how Microsoft supports data discovery, classification, and protection as part of a cybersecurity solution](https://learn.microsoft.com/en-us/training/paths/data-identification-cybersecurity/?ns-enrollment-type=Collection&ns-enrollment-id=odxxbgtmdyzzkd)

* + 2 modules
  + 1 hr 50 min
* 
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*      

Plan

# Discover Data Concepts and Implement Solutions with Microsoft Fabric (2)

3 milestones

This plan covers data discovery, classification, and protection, alongside implementing data warehouses using Microsoft Fabric. You'll learn key technologies like Azure and Microsoft Fabric, and tasks such as data management and analytics.RESEARCH BACKGROUND & CAREER PORTFOLIO Title: Digital Automation and Engineering Documentation Using VBA Macros and Form Controls Author: Tshingombe Tshitadi Fiston Institution: St Peace College / City Power / DBE / DHET Field: Engineering Education, Digital Systems, Technical Training Portfolio Theme: Integra

* Edited on 8/18/2025
* Created by [tshingombe tshitadi](https://learn.microsoft.com/en-us/users/tshingombetshitadi-5294/)

Learning outcomes

* By the end of this plan, you'll be able to identify and apply core data concepts and roles in data management.APPLICATIONS & IMPACT 🏫 Institutional Use • DBE and DHET curriculum mapping • ISITA and Umalusi assessment compliance • City Power and Eskom technical training modules • TVET college portfolio standardization 💼 Career Development • Portfolio for job applications and internships • Evidence of technical and digital competency • Integration with GitHub for code versioning • Alignment with NATED and engineering qualifications Would you li
* By the end of this plan, you'll be able to design and implement a VBA macro-driven workbook that automates: • Student registration and assessment tracking • Engineering drawing analysis and documentation • PLC command simulation and device interfacing • Portfolio generation for career readiness 2️⃣ VBA MACRO & FORM CONTROL SYSTEM 🔧 Key Modules Macro Purpose reset\_form() Clears form fields, initializes default values, saves workbook Macro2() Operates calculatimplement a data warehouse using Microsoft Fabric, including loading and querying data.
* By the end of this plan, you'll be able to utilize Microsoft Purview for data discovery and protectionVBA FORM CONTROL SYSTEM OVERVIEW Project Title: Multi-Form VBA Interface for Engineering Documentation and Student Record Automation Author: Tshingombe Tshitadi Fiston Platform: Microsoft Excel + VBA + MSForms Use Case: Engineering education, student records, PLC simulation, project documentation 🔧 SYSTEM ARCHITECTURE Your code spans multiple UserForms, Modules, and Event Handlers, each serving a specific function: 🗂️ UserForms Breakdown For.
*  

### Skills earned upon completion

## 3 milestones in this plan

Milestone 1

Progress:

0%

### Implement data warehousing solutions with Microsoft Fabric

Explore the data warehousing process using Microsoft Fabric. Learn to load, monitor, secure, and query data warehouses, enhancing your data management skills.

Days to milestone: 3

* Learning Path

[Implement a data warehouse with Microsoft Fabric](https://learn.microsoft.com/en-us/training/paths/work-with-data-warehouses-using-microsoft-fabric/?ns-enrollment-type=Collection&ns-enrollment-id=j2zzc3te1ywm21)

* + 6 modules
  + 5 hr 57 min

Implement a data warehouse with Mi...

   Learning Path

[Get started with Microsoft Fabric](https://learn.microsoft.com/en-us/training/paths/get-started-fabric/?ns-enrollment-type=Collection&ns-enrollment-id=j2zzc3te1ywm21)

* 10 modules
* 10 hr 31 min
* 

Milestone 2

Progress:

0%

### Understand data concepts and core data principles

Learn fundamental data concepts, analytics, and roles using Microsoft Azure and SQL Server. This section covers data discovery, classification, and protection, essential for effective data management.

Days to milestone: 1

* Learning Path

[Understand data concepts](https://learn.microsoft.com/en-us/training/paths/understand-data-concepts/?ns-enrollment-type=Collection&ns-enrollment-id=j2zzc3te1ywm21)

* + 3 modules
  + 1 hr 34 min

    Learning Path

[Introduction to Microsoft Azure Data core data concepts](https://learn.microsoft.com/en-us/training/paths/azure-data-fundamentals-explore-core-data-concepts/?ns-enrollment-type=Collection&ns-enrollment-id=j2zzc3te1ywm21)

* 2 modules
* 59 min
*  

Milestone 3

Progress:

0%

### Support data protection and cybersecurity solutions

Understand how Microsoft supports data discovery, classification, and protection in cybersecurity. This section focuses on essential data protection capabilities within M365 and Azure.

Days to milestone: 1

* Learning Path

[Learn how Microsoft supports data discovery, classification, and protection as part of a cybersecurity solution](https://learn.microsoft.com/en-us/training/paths/data-identification-cybersecurity/?ns-enrollment-type=Collection&ns-enrollment-id=j2zzc3te1ywm21)

* + 2 modules
  + 1 hr 50 min
* 
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Plan

# Discover Data Concepts and Implement Solutions with Microsoft Fabric (3)

3 milestones

This plan covers data discovery, classification, and protection, alongside implementing data warehouses using Microsoft Fabric. You'll learn key technologies like Azure and Microsoft Fabric, and tasks such as data management and analytics.🧠 RESEARCH BACKGROUND & CAREER PORTFOLIO 2 1️⃣ RESEARCH BACKGROUND 2 2️⃣ VBA MACRO & FORM CONTROL SYSTEM 3 3️⃣ CAREER PORTFOLIO COMPONENTS 3 4️⃣ APPLICATIONS & IMPACT 3 🧾 APPLICATION CONTEXT 5 🧠 VBA FORM CONTROL SYSTEM OVERVIEW 6 🔧 SYSTEM ARCHITECTURE 6 🧠 EVENT HANDLER LOGIC 7 📁 PORTFOLIO INTEGRATION 7

* Edited on 8/18/2025
* Created by [tshingombe tshitadi](https://learn.microsoft.com/en-us/users/tshingombetshitadi-5294/)

Learning outcomes

* By the end of this plan, you'll be able to identify and apply core data concepts and roles in data man🧠 RESEARCH BACKGROUND & CAREER PORTFOLIO 2 1️⃣ RESEARCH BACKGROUND 2 2️⃣ VBA MACRO & FORM CONTROL SYSTEM 3 3️⃣ CAREER PORTFOLIO COMPONENTS 3 4️⃣ APPLICATIONS & IMPACT 3 🧾 APPLICATION CONTEXT 5 🧠 VBA FORM CONTROL SYSTEM OVERVIEW 6 🔧 SYSTEM ARCHITECTURE 6 🧠 EVENT HANDLER LOGIC 7 📁 PORTFOLIO INTEGRATION 7 🔗 NEXT STEPS 8 ⚙️ SYSTEM MODULE: VBA + ENGINEERING FAULT ANALYSIS 8 🔧 VBA UserForm3 Configuration 8 End Sub🔌 THREE-PHASE FAULT agement.
* By the end of this plan, you'll be able to implement a data warehouse using Microsoft Fabric, including loading and querying data.🧠 RESEARCH BACKGROUND & CAREER PORTFOLIO 2 1️⃣ RESEARCH BACKGROUND 2 2️⃣ VBA MACRO & FORM CONTROL SYSTEM 3 3️⃣ CAREER PORTFOLIO COMPONENTS 3 4️⃣ APPLICATIONS & IMPACT 3 🧾 APPLICATION CONTEXT 5 🧠 VBA FORM CONTROL SYSTEM OVERVIEW 6 🔧 SYSTEM ARCHITECTURE 6 🧠 EVENT HANDLER LOGIC 7 📁 PORTFOLIO INTEGRATION 7 🔗 NEXT STEPS 8 ⚙️ SYSTEM MODULE: VBA + ENGINEERING FAULT ANALYSIS 8 🔧 VBA UserForm3 Configuration 8 End Sub
* By the end of this plan, you'll be able to utilize Microsoft Purview for data discovery and protect🤖 AI/ML Deployment & Scaling in Software Engineering 48 🎓 Overview 49 Portfolio Evidence: 49 🔄 Cross-Domain Integration Strategy 49 📊 Strategic Impact 49 ⚙️ Specialist Engineering in Electrochemical Systems for Infrastructure 50 🎓 Core Modules & Strategic Themes 50 🔋 Energy Storage and Battery Technology 50 🎓 Core Modules & Strategic Themes 50 🤖 Advanced Robotic Process Automation in Electrical Engineering 51 🎓 Core Modules & Strategiion.
*  

### Skills earned upon completion

## 3 milestones in this plan

Milestone 1

Progress:

0%

### Understand data concepts and core data principles

Learn fundamental data concepts, analytics, and roles using Microsoft Azure and SQL Server. This section covers data discovery, classification, and protection, essential for effective data management.

Days to milestone: 1

* Learning Path

[Understand data concepts](https://learn.microsoft.com/en-us/training/paths/understand-data-concepts/?ns-enrollment-type=Collection&ns-enrollment-id=g7ggf3tmkn8o3n)

* + 3 modules
  + 1 hr 34 min

   Learning Path

[Introduction to Microsoft Azure Data core data concepts](https://learn.microsoft.com/en-us/training/paths/azure-data-fundamentals-explore-core-data-concepts/?ns-enrollment-type=Collection&ns-enrollment-id=g7ggf3tmkn8o3n)

* 2 modules
* 59 min
* 

Milestone 2

Progress:

0%

### Implement data warehousing solutions with Microsoft Fabric

Explore the data warehousing process using Microsoft Fabric. Learn to load, monitor, secure, and query data warehouses, enhancing your data management skills.

Days to milestone: 3

* Learning Path

[Implement a data warehouse with Microsoft Fabric](https://learn.microsoft.com/en-us/training/paths/work-with-data-warehouses-using-microsoft-fabric/?ns-enrollment-type=Collection&ns-enrollment-id=g7ggf3tmkn8o3n)

* + 6 modules
  + 5 hr 57 min

Implement a data warehouse with Mi...

    Learning Path

[Get started with Microsoft Fabric](https://learn.microsoft.com/en-us/training/paths/get-started-fabric/?ns-enrollment-type=Collection&ns-enrollment-id=g7ggf3tmkn8o3n)

* 10 modules
* 10 hr 31 min
*  

Milestone 3

Progress:

0%

### Support data protection and cybersecurity solutions

Understand how Microsoft supports data discovery, classification, and protection in cybersecurity. This section focuses on essential data protection capabilities within M365 and Azure.

Days to milestone: 1

* Learning Path

[Learn how Microsoft supports data discovery, classification, and protection as part of a cybersecurity solution](https://learn.microsoft.com/en-us/training/paths/data-identification-cybersecurity/?ns-enrollment-type=Collection&ns-enrollment-id=g7ggf3tmkn8o3n)

* + 2 modules
  + 1 hr 50 min
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**Review plan**

Required fields are marked with an asterisk

Plan

**Develop AI Solutions with Azure**

In this plan, you'll learn to implement AI solutions using Azure AI services, focusing on knowledge mining, information extraction, and developing AI agents. Key technologies include Azure AI Search and Azure AI Foundry.

Learning outcomes

* By the end of this plan, you'll be able to implement knowledge mining solutions using Azure AI Search to extract insights from data.
* By the end of this plan, you'll be able to develop AI information extraction solutions that automate data capture and enhance business processes.
* By the end of this plan, you'll be able to create and deploy AI agents using Azure AI Foundry to improve user interactions.

Estimated time to complete: 29 days

**6 milestone(s) in this plan**

Get started with Azure AI Services (1 item)

Learn the fundamentals of Azure AI Services, including key concepts and tools. This section covers getting started with AI services and foundational knowledge for further learning.

Days to milestone: 5

Get started with Azure AI Services - Training

Develop AI information extraction solutions (1 item)

Develop AI Agents on Azure (1 item)

Implement knowledge mining with Azure AI Search (1 item)

Develop generative AI apps in Azure (1 item)

Microsoft Certified: Azure AI Engineer Associate - Certifications (1 item)

Is this plan helpful?

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Plan

# Develop AI Solutions with Azure engineering dATABASE

6 milestones

In this plan, you'll learn to implement AI solutions using Azure AI services, focusing on knowledge mining, information extraction, and developing AI agents. Key technologies include Azure AI Search and Azure AI Foundry.🤖 AI/ML Deployment & Scaling in Software Engineering 48 🎓 Overview 49 Portfolio Evidence: 49 🔄 Cross-Domain Integration Strategy 49 📊 Strategic Impact 49 ⚙️ Specialist Engineering in Electrochemical Systems for Infrastructure 50 🎓 Core Modules & Strategic Themes 50 🔋 Energy Storage and Battery Technology 50 🎓 Core Modules

* Edited on 8/18/2025
* Created by [46307064](https://learn.microsoft.com/en-us/users/46307064/)

Learning outcomes

* By the end of this plan, you'll be able to implement knowledge mining solutions using Azure AI Search to extract insights from data.🤖 AI/ML Deployment & Scaling in Software Engineering 48 🎓 Overview 49 Portfolio Evidence: 49 🔄 Cross-Domain Integration Strategy 49 📊 Strategic Impact 49 ⚙️ Specialist Engineering in Electrochemical Systems for Infrastructure 50 🎓 Core Modules & Strategic Themes 50 🔋 Energy Storage and Battery Technology 50 🎓 Core Modules & Strategic Themes 50 🤖 Advanced Robotic Process Automation in Electrical Engineering
* By the end of this plan, you'll be able to develop AI information extraction solutions that automate data capture and enhance business processes.
* By the end of this plan, you'll be able to create and deploy AI agents using Azure AI Foundry to improve user interactions.
*  

### Skills earned upon completion

*  

## 6 milestones in this plan

Milestone 1

Progress:

0%

### Get started with Azure AI Services

Learn the fundamentals of Azure AI Services, including key concepts and tools. This section covers getting started with AI services and foundational knowledge for further learning.

Days to milestone: 5

* Learning Path

[Develop generative AI apps in Azure](https://learn.microsoft.com/en-us/training/paths/create-custom-copilots-ai-studio/?ns-enrollment-type=Collection&ns-enrollment-id=1n2mhotejorj8y)

* + 8 modules
  + 7 hr 29 min

Develop generative AI apps in Azur...

*    

Milestone 2

Progress:

0%

### Implement knowledge mining with Azure AI Search

Master knowledge mining techniques using Azure Cognitive Search. This section dives into implementing search solutions that leverage AI for enhanced information retrieval.

Days to milestone: 6

* Learning Path

[Implement knowledge mining with Azure AI Search](https://learn.microsoft.com/en-us/training/paths/implement-knowledge-mining-azure-cognitive-search/?ns-enrollment-type=Collection&ns-enrollment-id=1n2mhotejorj8y)

* + 8 modules
  + 6 hr 24 min
*     

Milestone 3

Progress:

0%

### Develop AI information extraction solutions

Explore how to extract information from various content types using Azure AI services. This section focuses on practical applications and techniques for information extraction.

Days to milestone: 4

* Learning Path

[Develop AI information extraction solutions in Azure](https://learn.microsoft.com/en-us/training/paths/ai-extract-information/?ns-enrollment-type=Collection&ns-enrollment-id=1n2mhotejorj8y)

* + 5 modules
  + 4 hr 18 min
*     

Milestone 4

Progress:

0%

### Develop AI Agents on Azure

Learn to create AI agents using Azure AI Foundry and Semantic Kernel. This section covers agent development techniques and frameworks for building intelligent applications.

Days to milestone: 6

* Learning Path

[Develop AI agents on Azure](https://learn.microsoft.com/en-us/training/paths/develop-ai-agents-on-azure/?ns-enrollment-type=Collection&ns-enrollment-id=1n2mhotejorj8y)

* + 7 modules
  + 6 hr 28 min
*     

Milestone 5

Progress:

0%

### Develop generative AI apps in Azure

Learn to create generative AI applications using Azure services. This section covers the development of innovative AI solutions and applications for various use cases.

Days to milestone: 7

* Learning Path

[Develop generative AI apps in Azure](https://learn.microsoft.com/en-us/training/paths/create-custom-copilots-ai-studio/?ns-enrollment-type=Collection&ns-enrollment-id=1n2mhotejorj8y)

* + 8 modules
  + 7 hr 29 min

Develop generative AI apps in Azur...

*     

Milestone 6

Progress:

0%

### Microsoft Certified: Azure AI Engineer Associate - Certifications

Days to milestone: 1

* Certification

[Microsoft Certified: Azure AI Engineer Associate - Certifications](https://learn.microsoft.com/en-us/credentials/certifications/azure-ai-engineer/?ns-enrollment-type=Collection&ns-enrollment-id=1n2mhotejorj8y)

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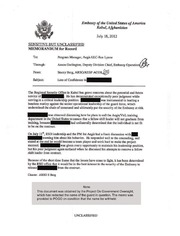
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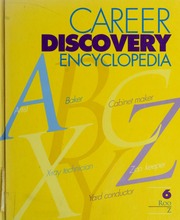
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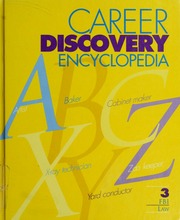
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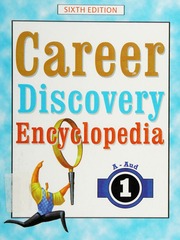
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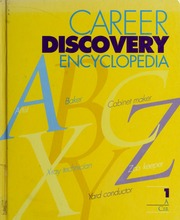
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by summerfield, carol j., 1960-

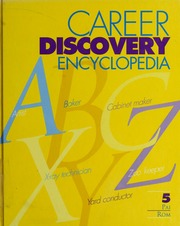
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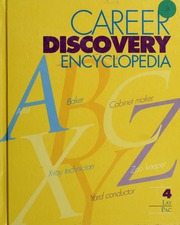
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Inbox

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  | | --- | | Ruth Shuman | | | | Fri, Aug 15, 6:31 PM (3 days ago) |
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| |  |  |  | | --- | --- | --- | | |  | | --- | | to tshingombekb@gmail.cm, me, rshuman@salesforce.nsf.gov, tshingombekb@gmail.com  https://mail.google.com/mail/u/0/images/cleardot.gif | | | |  | |  | | |  | | --- | | Dear tshingombe,  Thank you for your interest in the NSF I-Corps program.  This application has been declined. The applicant does not meet the eligibility requirements. To be eligible, the core technology needs to have been developed at an accredited institution of higher education and the proposal must be submitted from an institution of higher education. Companies are not eligible to apply with the exception of current NSF Phase I grantees (if you are a Phase I grantee, please send your Phase I award number). In addition, an application requires a minimum of three team members (Entrepreneurial Lead, Technical Lead, and Industry Mentor), and include a team member that has a related and relevant prior NSF research award, or the team must have participated in a regional I-Corps program and received a Letter of Recommendation to the national program.  Thank you,  Ruth Shuman  Program Director  National Science Foundation (NSF)  2415 Eisenhower Boulevard, Alexandria, VA 22314  [rshuman@salesforce.nsf.gov](mailto:rshuman@salesforce.nsf.gov) | | |

# engineering **#5**

##   Jobs

##   Run details

[build](https://github.com/Kananga5/career-discovery-science-mentoring-and-job-experience-tshingombe-/actions/runs/17039306236/job/48298982012#logs)

succeeded Aug 18, 2025 in 7s

Top of Form

Bottom of Form

Top of Form



Bottom of Form

1s

Current runner version: '2.327.1'

Runner Image Provisioner

Operating System

Runner Image

GITHUB\_TOKEN Permissions

Secret source: Actions

Prepare workflow directory

Prepare all required actions

Getting action download info

Download action repository 'actions/checkout@v4' (SHA:08eba0b27e820071cde6df949e0beb9ba4906955)

Complete job name: build

2s

Run actions/checkout@v4

Syncing repository: Kananga5/career-discovery-science-mentoring-and-job-experience-tshingombe-

Getting Git version info

Temporarily overriding HOME='/home/runner/work/\_temp/1d454498-ff30-47ea-a73f-11437e8d732b' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/career-discovery-science-mentoring-and-job-experience-tshingombe-/career-discovery-science-mentoring-and-job-experience-tshingombe-

Deleting the contents of '/home/runner/work/career-discovery-science-mentoring-and-job-experience-tshingombe-/career-discovery-science-mentoring-and-job-experience-tshingombe-'

Initializing the repository

Disabling automatic garbage collection

Setting up auth

Fetching the repository

Determining the checkout info

/usr/bin/git sparse-checkout disable

/usr/bin/git config --local --unset-all extensions.worktreeConfig

Checking out the ref

/usr/bin/git log -1 --format=%H

67712c5b5cca6e751a8d54dcb9496f858218fec7

0s

Run echo Hello, world!

Hello, world!

0s

Run echo Add other actions to build,

Add other actions to build,

test, and deploy your project.

1s

Post job cleanup.

/usr/bin/git version

git version 2.50.1

Temporarily overriding HOME='/home/runner/work/\_temp/7fbf7f0d-af0f-468c-bb8d-974930b56be8' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/career-discovery-science-mentoring-and-job-experience-tshingombe-/career-discovery-science-mentoring-and-job-experience-tshingombe-

/usr/bin/git config --local --name-only --get-regexp core\.sshCommand

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"

/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader

http.<https://github.com/.extraheader>

/usr/bin/git config --local --unset-all http.<https://github.com/.extraheader>

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\.https\:\/\/github\.com\/\.extraheader' && git config --local --unset-all 'http.<https://github.com/.extraheader>' || :"

0s

Cleaning up orphan processes[Kananga5](https://github.com/Kananga5)

[data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-)

 [Code](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-)



 [Issues](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/issues)



 [Pull requests](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/pulls)



 [Actions](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/actions)



 [Projects](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/projects)



 [Wiki](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/wiki)



 [Security](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/security)



 [Insights](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/pulse)



* [Settings](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/settings)

[CI](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/actions/workflows/blank.yml)

**engineering** #3

**  Jobs**

**  Run details**

[build](https://github.com/Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/actions/runs/17039851330/job/48300705363#logs)

succeeded Aug 18, 2025 in 5s

Top of Form

Bottom of Form

Top of Form



Bottom of Form

1s

Current runner version: '2.327.1'

Runner Image Provisioner

Operating System

Runner Image

GITHUB\_TOKEN Permissions

Secret source: Actions

Prepare workflow directory

Prepare all required actions

Getting action download info

Download action repository 'actions/checkout@v4' (SHA:08eba0b27e820071cde6df949e0beb9ba4906955)

Complete job name: build

3s

Run actions/checkout@v4

Syncing repository: Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-

Getting Git version info

Temporarily overriding HOME='/home/runner/work/\_temp/aa2fcabf-463e-4bea-8a8b-9b1af7bb7656' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-

Deleting the contents of '/home/runner/work/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-'

Initializing the repository

Disabling automatic garbage collection

Setting up auth

Fetching the repository

Determining the checkout info

/usr/bin/git sparse-checkout disable

/usr/bin/git config --local --unset-all extensions.worktreeConfig

Checking out the ref

/usr/bin/git log -1 --format=%H

0e9be0616f84440346b333e424b0316c2773c94c

0s

Run echo Hello, world!

Hello, world!

0s

Run echo Add other actions to build,

Add other actions to build,

test, and deploy your project.

0s

Post job cleanup.

/usr/bin/git version

git version 2.50.1

Temporarily overriding HOME='/home/runner/work/\_temp/8e284bd4-e182-4601-a142-ce00de7d5cd5' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-

/usr/bin/git config --local --name-only --get-regexp core\.sshCommand

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"

/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader

http.<https://github.com/.extraheader>

/usr/bin/git config --local --unset-all http.<https://github.com/.extraheader>

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\.https\:\/\/github\.com\/\.extraheader' && git config --local --unset-all 'http.<https://github.com/.extraheader>' || :"

0s

Cleaning up orphan processes