

PROPOSAL FOR STRATEGIC PARTNERSHIP BETWEEN TARABA STATE UNIVERSITY AND OULU MINING SCHOOL, FINLAND

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EXECUTIVE SUMMARY

- This proposal outlines a strategic partnership between Taraba State University (TSU) in Jalingo, Nigeria, and Oulu Mining School (OMS) in Finland aimed at harnessing the rich mineral resources of Taraba State.



EXECUTIVE SUMMARY

- By addressing the need for a skilled workforce and aligning educational initiatives with industry requirements, this collaboration seeks to position TSU as a **center of excellence** in mining education, while also addressing local and international mining industry needs.

OVERVIEW OF TARABA STATE'S MINERAL RESOURCES



- ❑ Improved geological data over the years have revealed that Nigeria is endowed with numerous deposits of industrial, **metallic** and **nonmetallic** minerals.

- ❑ There are about **34 minerals** that have been identified in the country, of which only 13 are being actually mined, processed and marketed.

OVERVIEW OF TARABA STATE'S MINERAL RESOURCES

- Taraba State in northeastern Nigeria has a large amount of solid mineral resources, including **gold, diamond, galena, limestone, and zinc.**
- Some of the mining potentials in Taraba State include:
 - a. Precious stones:** Mining of consolidated precious stones
 - b. Lead-zinc:** Mining of lead-zinc for smelting
 - c. Limestone:** Mining of limestone for cement manufacturers





OVERVIEW OF TARABA STATE'S MINERAL RESOURCES

- **Bauxite:** Mining of bauxite for aluminum manufacturers
 - **Clay:** Quarrying of clay for ceramics
 - **Gold:** Mining of gold for jewelry
 - **Baryte:** Mining of baryte
- Taraba State has taken a leading role in developing its mining sector, and can serve as a model for the rest of Nigeria.

- ❑ Taraba State has taken a leading role in developing its mining sector, and can serve as a model for the rest of Nigeria.
- ❑ Taraba State is endowed with a diverse array of mineral resources, which presents substantial opportunities for economic development and industry growth.



- Key minerals found in the region include:
 - **Gold:** Specifically abundant in Ibi and Wukari, gold extraction is poised to significantly benefit the local economy.
 - **Limestone:** Essential for cement production, limestone deposits are crucial for infrastructure development.



KEY MINERALS FOUND IN THE REGION INCLUDE:

- **Bauxite, Kaolin, and Talc:** These minerals cater to various sectors, including ceramics and cosmetics, offering vast applications.
- **Precious stones and gemstones:** Opportunities exist for exploration and exploitation, attracting tourism and boosting local entrepreneurship.





- Taraba State has taken a **leading role** in developing the sector and it can serve as a positive example for the entire mining sector in Nigeria.
- The state has over **52 discovered solid mineral resources** with the highest hydroelectricity power potential in the whole country.



- With an estimated reserve of these resources, Taraba State presents **significant potential** for mining operations that can lead to **job creation, economic stability, and investment.**



JUSTIFICATION FOR COLLABORATION

- **Taraba State University: A Suitable Partner**

- Taraba State University, situated in the heart of Taraba, is well-positioned to develop a robust educational framework that aligns with the state's **mining industry demands**.

- The university's commitment to **innovative education, research, and community engagement** makes it an ideal partner for OMS in Finland.



- ❑ The university was established by the Taraba State Government in 2008, to widen access to university education for Taraba State indigenes and promote economic growth and development in the state particularly and the country at large.
- ❑ Taraba State University is a non-profit public higher education institution located in the small city of Jalingo, Taraba State.



- ❑ Taraba State University (TSU) offers courses and programs leading to officially recognized higher education degrees such as bachelor's degrees in several areas of study.

- ❑ The University has embarked in various **national** and **international** collaborations in areas of research and skills acquisition.

OBJECTIVES OF THE PARTNERSHIP

- ❑ **Develop Manpower Capacity:** Train students to meet the evolving needs of the local and global mining industries.
- ❑ **Foster Research Innovation:** Establish joint research ventures to address mining practices, sustainability, and economic benefits.



OBJECTIVES OF THE PARTNERSHIP

- ❑ **Enhance Educational Offerings:** Create a curriculum that embraces best practices from both institutions while focusing on real-world applications within Taraba's mining landscape.
- ❑ **Establish TSU as a Mining Education Hub:** Position TSU as a recognized center of excellence in mining education and research in Nigeria and Africa.



PROPOSED ACTIVITIES



- **Joint Research Projects and Publications:**
 - Facilitate collaborative research focusing on **sustainable mining practices and technologies, geological surveys, and socio-economic** impacts.
 - Co-author research papers and articles for publication in reputable international journals, **enhancing visibility** for both institutions.



PROPOSED ACTIVITIES

- **Exchange Programs for Students and Faculty:**
 - Develop a structured student and faculty exchange program promoting academic enrichment and international exposure.
 - Facilitate internships in Finnish mining companies for TSU students, providing hands-on experience in advanced mining practices.

PROPOSED ACTIVITIES



- **Professional Development and Training:**
 - Organize specialized **workshops, seminars, and training sessions** for faculty and industry professionals focusing on **current trends and technologies in mining.**
 - Establish certification courses that respond to **industry demands, enhancing the employability** of graduates.

PROPOSED ACTIVITIES



□ Shared Resources and Infrastructure:

- Collaborate on the development of a **state-of-the-art mining training center** at TSU, utilizing OMS's expertise in establishing **mining educational frameworks**.
- Utilize shared technology and research facilities to minimize costs while maximizing **educational outcomes**, and foster **collaborative projects**.

BENEFITS OF THE COLLABORATION



1. Strengthened Educational Standards:

- Educate a **skilled workforce** capable of meeting local and international mining industry demands, improving **employability** and regional economic conditions.

2. Enhanced Research Capabilities:

- Joint research initiatives will bring together expertise from both institutions, leading to **innovative practices** that can be implemented in local operations and published globally.

BENEFITS OF THE COLLABORATION



1. Increased Global Networking:

- Strengthening ties with OMS will allow TSU students and faculty to benefit from international academic relationships, enhancing their **global engagement and opportunities**.

2. Economic Growth and Sustainability:

- A well-educated workforce ensures efficient and sustainable mining practices, driving economic growth while safeguarding the environment in Taraba State, Nigeria.



SUMMARILY

- ❑ The proposed partnership between Taraba State University and Oulu Mining School presents a unique opportunity to enhance **educational outcomes** and **economic development** within Taraba State.
- ❑ By collaborating on **research initiatives, student exchanges, and professional training**, we can position TSU as a leader in mining education and develop a skilled workforce that meets the needs of today's mining industry.

TIMELINE FOR IMPLEMENTING THE PARTNERSHIP BETWEEN TARABA STATE UNIVERSITY AND OULU MINING SCHOOL

- This proposed timeline outlines the key phases for implementing the partnership between Taraba State University (TSU) and Oulu Mining School (OMS), focusing on essential tasks required to achieve the partnership's goals.
- The timeline is structured over a period of **3 years** divided into specific phases.



PHASE 1: PARTNERSHIP INCEPTION (0-6 MONTHS)



- **Month 1-2:**
 - **Initial Meetings:** Conduct meetings between key stakeholders from TSU and OMS to discuss the partnership scope, common goals, and mutual benefits.
 - **Research and Information Gathering:** Assess the current situation at TSU regarding mining and geosciences education, faculty qualifications, and available infrastructure.

PHASE 1: PARTNERSHIP INCEPTION (0-6 MONTHS)

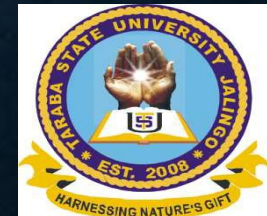


Month 3-4:

- Develop Partnership Framework: Draft an initial framework outlining objectives, responsibilities, and expectations of both parties.
- Address Legal Considerations: Consult legal advisers to prepare necessary agreements or contracts that define the partnership.

PHASE 1: PARTNERSHIP INCEPTION (0-6 MONTHS)

- **Month 5-6:**
 - **Sign Letter of Intent (LOI):** Formalize the partnership by signing the LOI, stating the intention to collaborate on various initiatives.



PHASE 2: CURRICULUM DEVELOPMENT AND FACULTY PREPARATION (6-12 MONTHS)



- **Month 7-8:**
 - **Curriculum Development:** Form a joint curriculum committee to design degree and postgraduate programs in **Mining and Geosciences**, incorporating **international best practices**.
 - **Identify Faculty Experts:** Assess faculty qualifications at TSU and identify areas for development and potential candidates for training at OMS.

PHASE 2: CURRICULUM DEVELOPMENT AND FACULTY PREPARATION (6-12 MONTHS)

- **Month 9-10:**
 - **Professional Development:** Arrange initial training sessions and workshops for TSU faculty, led by OMS faculty to improve **teaching methodologies** and understand **current industry trends**.
 - **Resource Sharing Mechanism:** Set up mechanisms for sharing resources and infrastructure, including online access to OMS laboratories and educational materials.



PHASE 2: CURRICULUM DEVELOPMENT AND FACULTY PREPARATION (6-12 MONTHS)

- **Month 11-12:**
 - **Final Review of Curriculum:** Conduct a comprehensive review of the proposed curriculum with stakeholders and make necessary adjustments.



PHASE 3: INFRASTRUCTURE DEVELOPMENT AND PROGRAM LAUNCH (12-18 MONTHS)



- **Month 13-15:**
 - **Infrastructure Planning:** Begin detailed planning for the development of facilities for the Faculty of Mining and Geosciences at TSU. The available facilities such as Lecture Halls, Offices, academic and laboratory facilities to support mining programs are prospect for immediate take-off.
 - **Identify Funding Sources:** Explore potential funding sources, including government grants, private sector investment, and international funding organizations.

PHASE 3: INFRASTRUCTURE DEVELOPMENT AND PROGRAM LAUNCH (12-18 MONTHS)

- **Month 17-18:**
 - **Program Launch:** Officially launch the new degree and postgraduate programs in Mining and Geosciences, enrolling the first cohort of students.



PHASE 4: RESEARCH INITIATIVES AND EXCHANGE PROGRAMS (18-24 MONTHS)



- **Month 19-21:**
 - **Initiate Joint Research Projects:** Start collaborative research projects focused on local mining practices, sustainability, and resource management.
 - **Establish Research Themes:** Define clear research themes and set up research groups comprising faculty members and students from both institutions.

PHASE 4: RESEARCH INITIATIVES AND EXCHANGE PROGRAMS (18-24 MONTHS)



- **Month 22-23:**
 - **Develop Exchange Programs:** Finalize the framework for student and faculty exchange programs, including timelines, eligibility, and required logistics.
 - **Promote Exchange Opportunities:** Publicize these opportunities among students and faculty at both institutions.

PHASE 4: RESEARCH INITIATIVES AND EXCHANGE PROGRAMS (18-24 MONTHS)

. **Month 24:**

- **Evaluate Progress:** Conduct a review meeting to assess progress on the partnership's initiation and implementation, discuss successes and challenges, and adjust the plan as needed.



PHASE 5: CONTINUOUS DEVELOPMENT AND EVALUATION (24-36 MONTHS)

- **Month 25-30:**
 - **Host Joint Workshops/Seminars:** Organize workshops, seminars, and conferences to foster knowledge exchange and promote research findings.
 - **Ongoing Faculty Training:** Continue to enhance faculty training through workshops, exposure to industry practices, and teaching innovations.



PHASE 5: CONTINUOUS DEVELOPMENT AND EVALUATION (24-36 MONTHS)

- **Month 31-33:**
 - **Program Review:** Conduct a curriculum and program evaluation through feedback from students, faculty, and industry partners, identifying needed improvements.



PHASE 5: CONTINUOUS DEVELOPMENT AND EVALUATION (24-36 MONTHS)

- **Month 34-36:**
 - **Strategic Assessment:** Hold a strategic assessment meeting between TSU and OMS to review overall partnership achievements, challenges faced, and plans for long-term sustainability.
 - **Develop Future Initiatives:** Identify and outline additional collaborative initiatives or expansion opportunities.



IN SUMMARY,



- This phased timeline provides a **structured approach** for implementing the partnership between **Taraba State University** and **Oulu Mining School**, ensuring progress is monitored, evaluations are conducted, and opportunities for improvement are identified.



- By maintaining a clear timeline, both institutions can effectively work toward their shared goals of enhancing education and workforce development in the mining sector.

RECOMMENDATIONS



- We recommend setting up an exploratory meeting between key stakeholders from both institutions to discuss the collaboration framework, explore funding opportunities, and refine the proposal to align with the strategic objectives of both Taraba State University and Oulu Mining School.





Taraba State University Jalingo and the Taraba State Government is open to enter a strong partnership towards establishing a Mining and Geosciences department in Taraba State Nigeria.

• THANK YOU

