ORIENTATION TO SECOND YEAR STUDENTS

Overview of School of Civil & Environmental Engineering







Contents

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- Resources (Staff, Labs, Computation)
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- Highlight of Projects undertaken by the School
- Job Opportunities (Employing Sectors)

History of the School

- The history of the school as the department of civil engineering starts in February 1954. Later it became part of the University in 1962.
- After being known as the Building College, it was incorporated into the College of Technology (later the Faculty of Technology) in 1969.
- The Faculty of Technology was reformed into Addis Ababa institute of Technology (AAiT) in 2010, the department became School of Civil and Environmental Engineering.
- Even though AAiT is changed to College of Technology and Built Environment in 2025, the school still remains as it is with some changes in its internal structure.

About the Program

- Civil Engineering is the art of directing the great sources of power in nature for the use and convenience of man. Royal Charter of Institute of Civil Engineers London.
- It is a field of engineering concerned with planning, design and construction for environmental control, development of natural resources, buildings, transportation facilities and other structures required for health, welfare, safety, employment and pleasure of mankind. Fredrick S. Merit Handbook for Civil Engineers
- Admission requirement: successful completion of first year program.
- Duration: 5 years (4 years - 8 Semesters- at the school & the first year)
- Graduation requirement: taking 325 ECTS with overall and core modules CGPS of 2.0 and above; Completing all course works without "F", Passing Exit Exam, Fulfillment of internship program, Conducting and passing BSc thesis

Professional profile (career paths)

- Acquire skills so that he/she can execute the following a few of the many activities in the discipline



Designing Infrastructures



Project Management



Road Construction



Construction



Environmental Engineering



Bridge Construction

- Pursue MSc. and PhD programs in any of the specialization of Civil Engineering at AAU or any other universities.

Professional profile (career paths) based Fields of Specialization/Stream

- **Structural Engineering stream:** planning and designing of structures: buildings, bridges, towers, coliseums, skyscrapers, etc.







Professional profile (career paths) … Cont'd

- Irrigation Engineering stream: Planning, designing, and overseeing construction of irrigation projects for transporting and distributing water to agricultural lands.

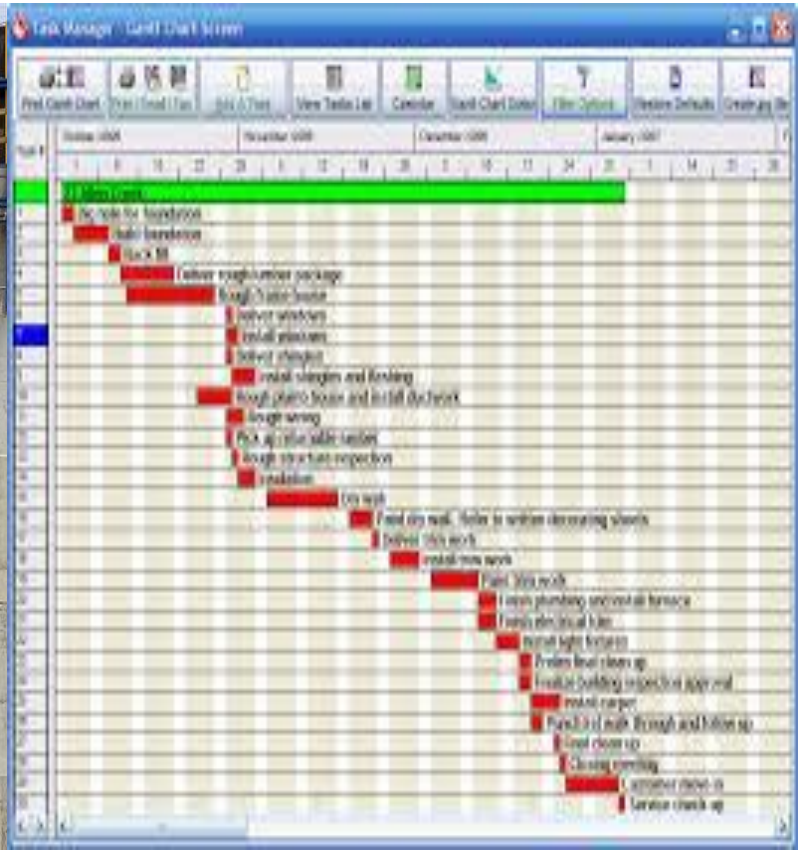




Professional profile (career paths) … Cont'd

- **Construction Management stream:** Managing time/resource of a project





Professional profile (career paths) … Cont'd

- **Environmental Engineering:** developing ways to prevent pollution of the natural environment and with remediating areas that have already been polluted.





Professional profile (career paths) … Cont'd

- **Road and Transport Engineering stream:** Designing and maintaining roads and public transportation systems.









Professional profile (career paths) … Cont'd

- **Geotechnical Engineering stream:** Responsible for foundation design, slope stabilization, solving landslide problems, excavation support systems, tunneling & soil mechanics.



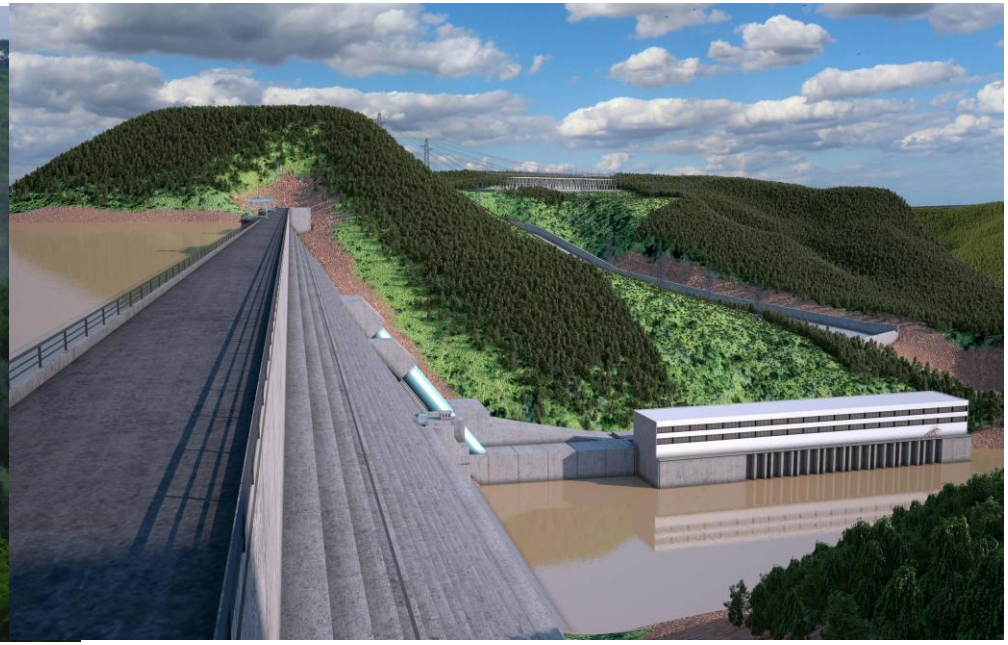




Professional profile (career paths) … Cont'd

- **Hydraulics Eng'g & Hydrology stream:** Design of dams, hydropower, storm-water retention and detention structures.





Professional profile (career paths) … Cont'd

- **Water supply & Waste water Eng'g stream:** Design the systems that treat public drinking water & sewage.

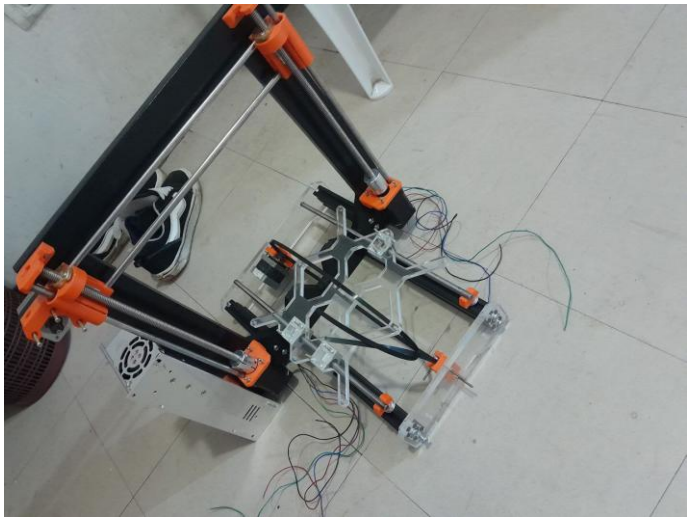






Emerging Technology in the Field of Civil Eng'g

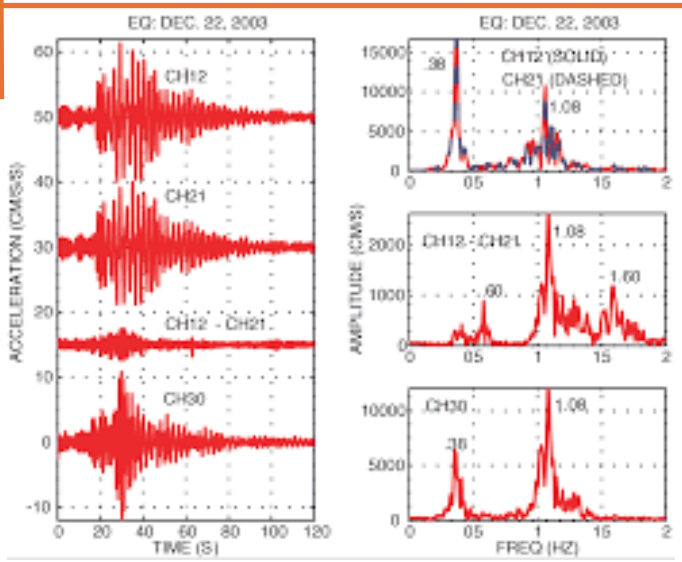
- 3D Concrete printing for rapid construction





- AI for design and monitoring,
- Building Information Modeling (BIM) for digital project models,
- Drones for site surveying and inspection,
- Smart materials like self-healing concrete.

Structural Health Monitoring and Innovations



Earthquake monitoring





Structural assessment and strengthening





Resources (Staff, Labs, Computation)

- The school has excellent staff profile ranging from Assistant Lectures to Full Professors as given below

	Male	Female	Total
PhD	31	4	35
MSc.	40	18	58
BSc.	2	-	2
	73	22	95

- Of these 95 instructors,
  - 7 are Full Professors with 1 being Emeritus Professor
- There are also 11 technical staff and 6 administrative staff

Resources (Staff, Labs, Computation) … Cont'd

The school has excellent laboratory facilities grouped into:

1. Concrete Materials and Structures Lab
2. Geotechnical Engineering Lab
3. Road and Transport Lab
4. Hydraulics and Water Resource Lab
5. Surveying Field Equipment
6. Sanitary and wastewater treatment Lab

Laboratory Facilities ... Cont'd







Laboratory Facilities ... Cont'd





Laboratory Facilities ... Cont'd

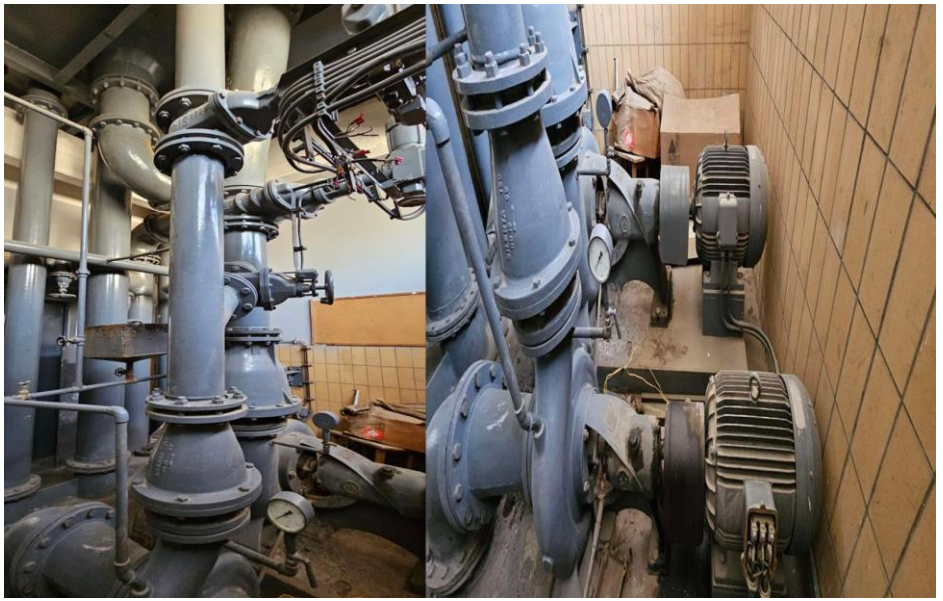


Laboratory Facilities ... Cont'd



Laboratory Facilities … Cont'd







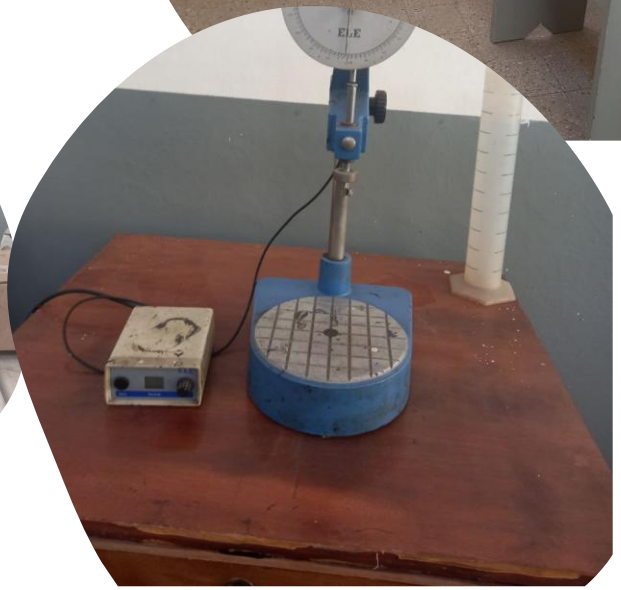
Laboratory Facilities … Cont'd













Resources (Staff, Labs, Computation) … Cont'd

- The school has excellent computing facilities where you can practice, and the school uses some of them for research and project works.



Collaboration with industries and universities

- The school has collaborations with many national and international universities for staff and student exchange programs, and research undertakings; to mention a few of these – University of Michigan, University of Illinois Chicago, University of Bonn's Center for Development Research, …
- The school has also collaborations with the industries to carry out research, projects, national code preparations, design consultations and construction supervision. Some of these include Ministry of Urban and Infrastructure, Ethiopian Construction Authority, Ethiopian Roads Administration, Ministry of Transportation, Many Banks & Insurances, Ministry of Finance, Ethiopian Investment Holdings, Industrial Parks Development Project Office …

Highlight of Projects Handled by the School

- Ethiopia's construction industry is growing rapidly, fueled by significant public investments in transport infrastructure, energy, housing projects, river developments, corridors and so on with an annual growth rate of over 8% and a value of $113 billion in ongoing and planned projects.
- This demands many qualified civil engineering graduates to be actors in the construction industry.
- Because there is lack of qualified experts in the industry, the school of Civil & Environmental Engineering is engaged in many complex projects.
- Currently there are many multi million projects at the school.
- In addition to their main duties, almost every staff of the school is involved in different capacity in different projects of varying scales.

Highlight of Projects … Cont'd










Under ground Parking Project
(Meskel Square and Grand Palace)
PARKING
LEVEL 2
B3


Industrial Parks Project


Underground Construction
Project


Sugar Factory Project


Road Project

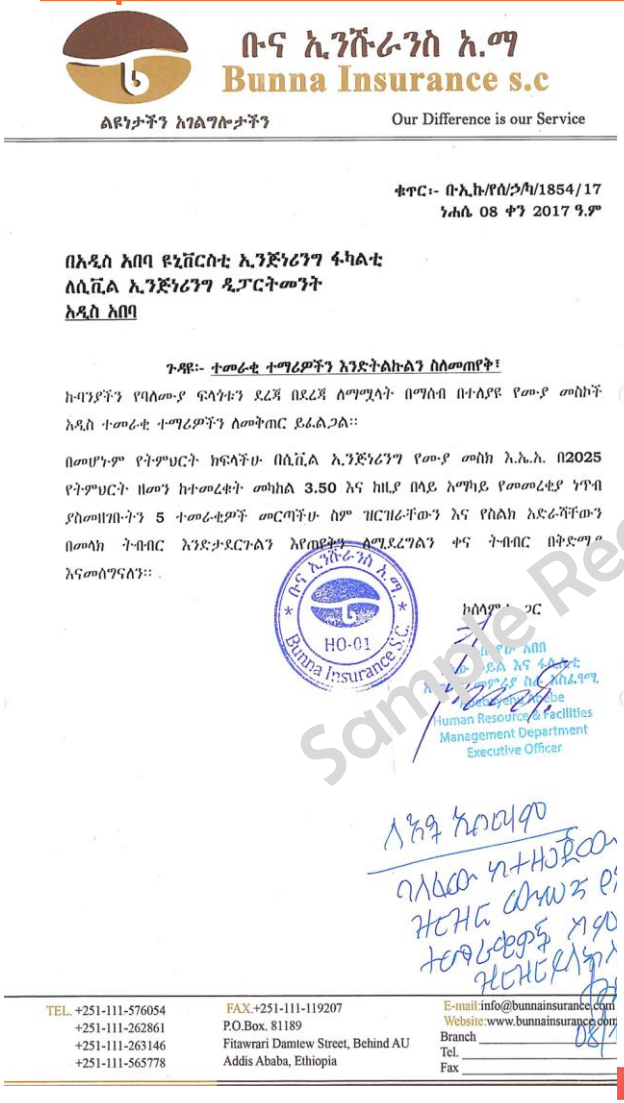
Job Opportunities (Employing Sectors)

- There are:
  - More than 4000 registered contractors;
  - About 400 registered consultants;
  - More than 10 big Real Estate Developers;
  - Many private sectors developing different types of projects;
  - Many demands in different sectorial bureaus (federal and regional even at zonal and woreda levels);
  - Many governmental construction activities and many more

. looking for your expertise.

- There are possibilities to establish your own company with small initial investment cost.
- This year many private companies requested the school to send them fresh graduates of the year. Sample requests are attached in the next slides.

Job Opportunities (Employing Sectors) … Cont'd



ቡና ኢንሹራንስ አ.ማ
Bunna Insurance s.c
ልዩነታችን አገልግሎታችን Our Difference is our Service

ቁጥር፡- ቡኢኩ/የሰ/ኃ/ክ/1854/17
ነሐሴ 08 ቀን 2017 ዓ.ም

በአዲስ አበባ ዩኒቨርስቲ ኢንጅነሪንግ ፋካልቲ
ለሲቪል ኢንጅነሪንግ ዲፓርትመንት
አዲስ አበባ

ጉዳዩ፡- ተመራቂ ተማሪዎችን እንድትልኩልን ስለመጠየቅ፤

ኩባንያችን የባለሙያ ፍላጎቱን ደረጃ በደረጃ ለማሟላት በማሰብ በተለያዩ የሙያ መስኮች አዲስ ተመራቂ ተማሪዎችን ለመቅጠር ይፈልጋል፡፡

በመሆኑም የትምህርት ክፍላችሁ በሲቪል ኢንጅነሪንግ የሙያ መስክ እ.ኤ.አ. በ2025 የትምህርት ዘመን ከተመረቁት መካከል 3.50 እና ከዚያ በላይ አማካይ የመመረቂያ ነጥብ ያስመዘገቡትን 5 ተመራቂዎች መርጣችሁ ስም ዝርዝራቸውን እና የስልክ አድራሻቸውን በመላክ ትብብር እንድታደርጉልን እየጠየቅን ለሚደረግልን ቀና ትብብር በቅድሚያ እናመሰግናለን፡፡

ከሰላምታ ጋር

Human Resource & Facilities Management Department Executive Officer

TEL. +251-111-576054
+251-111-262861
+251-111-263146
+251-111-565778

FAX.+251-111-119207
P.O.Box. 81189
Fitawrari Damtew Street, Behind AU
Addis Ababa, Ethiopia

E-mail:info@bunnainsurance.com
Website:www.bunnainsurance.com
Branch
Tel.
Fax

EASE
East Africa Specialized Engineering

Received on Jul

Date: 01 July 2025
Ref No.: EASE/7489/25

To: Addis Ababa University, CTBE, School of Civil and Environmental Eng.
Addis Ababa, Ethiopia

Subject: Engineering Internships and Working Opportunities

EASE Construction PLC is an advanced construction and engineering services provider based in Ethiopia. With over 25 years of experience, EASE has set the standard for innovation and excellence in construction, pioneering specialized engineering solutions.

We are currently seeking to identify and recruit talented Civil Engineering students for internship and hiring opportunities within our organization. We would greatly appreciate your assistance in recommending high performing students with a CGPA above 3.00 who have demonstrated exceptional skills and dedication in their studies. Our goal is to provide them with valuable hands on experience that aligns with their academic pursuits and fosters their professional growth.

We believe that partnering with your esteemed university will not only benefit the students but also contribute positively to our projects and initiatives.

Thank you for considering our request. We look forward to your recommendations and hope to establish a fruitful collaboration with your institution.

If you have any questions, please do not hesitate to contact our office EASE Engineering PLC Tel: +251972778288 , email: edlawit.b@singafricatrading.com, Addis Ababa.

Warm Regards

Mahlet Tsegaye
Chief Corporate Service Officer

EASE ENGINEERING PLC

TO Mr. Abreham k and Dr. Bethanemeskel

Please list down all students with CGPA of 3.0 and above, and forward to me before 2:00pm.
Thanks
Tensay G.
22/07/2025

Sub City Bole, Wereda
Addis Ababa, Ethi
+251 1 16 67 1
info@ease-int
www.ease-int

Specialized Engineered Solution for Structures

alpha
Post Tension

TO: SCEE
For Your Action
16 May 2025

To :- Addis Ababa University Institute of Technology

College of Technology and Build Environment

Addis Ababa

Subject: Request to Send the List of Top-Ten Students from the University Engineering Faculty to Alpha Post Tension

Our organization, Alpha Post Tension, is a construction company specialized in Post Tension technology in Ethiopia.

Having said that, our company has a Technical and Design Department, where we train Design Engineering graduates in Post Tension technology. This technology is new for our country, and we utilize specialized software systems in the Design Department to train fresh graduates and experienced employees from the University, preparing them to take on higher responsibilities in Ethiopia and within the field of Post Tension Technology.

Thus, this is to request your esteemed institution to send us the list who have a CGPA of 3.5 and above from the University Engineering Faculty Civil Engineering Students, along with their contact details, so that we can start the recruitment process.

We look forward to collaborating in the future in employee recruitment, training, and other possible areas.

With regards,

Abel Gebisading
CEO
Alpha Post Tension

Cc:- Human Resources Department
ALPPLC

② TO Mr. Abreham
For your follow up & preparation of documents for those with CGPA result of 3.5 & above.

① TO Graduating class of Civil & Env. Eng.
Please submit report to the school of civil & Environmental Eng. if you have the student and a CGPA result of 3.5 & above until tomorrow noon time.
Regards,
Abreham
Tensay G.
19/05/25

+251 115 57 74 61
+251 978 92 97 97
info@alphapostension.com
www.alphapostension.com
10Ws Beacon Head Quarter Bldg
Bole Sefer, Addis Ababa

Sample Recruitment Requests

Job Opportunities (Employing Sectors) … Cont'd

Sample Recruitment Requests

AEE አፍሮ-ዶርፒያን ኢንጂነርስ
Afro-European Engineers
Your Excellent Partner

Ref. Nr: AEE
Date: 23

School of Civil and Environmental Engineering
Addis Ababa Institute of Technology
Addis Ababa

Subject: Employment Opportunity for Prospective Master's Graduates of Structural Engineering Program

Dear Sirs/Madam,

Afro-European Engineers (AEE) is a structural engineering company established in 200 working on diverse projects as part of the 3K Engineering Group, operating in Ethiopia Central Europe, and other international markets.

We are excited to offer a fixed-term employment opportunity for prospective graduates from Civil Engineering Master's program in Structural Engineering for the academic ye 2024/25, for a duration of 12 months with a possibility of extension into a permanent contract.

We kindly request your esteemed institution to assist us in recruiting talented candidat who are highly motivated, take initiative, and demonstrating good character.

Thank you for considering our request.

Sincerely,

Dawit Kebede

Dawit Kebede (M.Sc., MBA, PPST, PMP)

CEO

TO Dr. Esayas G.
For your action.
23/08/25

9: Bole Road, TK International Building 2, Room # 305 | P.O.Box 2701 Code 1250, Addis Ababa, Ethiopia | Email: info@aee.com.et | Tel: +25
Fax: +251-(0)11-6184064 | AEE Web: aee.com.et | 3K Group Web: www.3k-ingenieure.com/english.html | Memberships: ECEAA, EACE, AACCSA | Certifi

AEE አፍሮ-ዶርፒያን ኢንጂነርስ
Afro-European Engineers
Your Excellent Partner

Ref. Nr: AEE/16
Date: 23-05-

School of Civil and Environmental Engineering
Addis Ababa Institute of Technology
Addis Ababa

Subject: Internship Opportunity for Prospective Bachelor's Graduates of Civil and Environmental Engineering Department

Dear Sir/Madam

Afro-European Engineers (AEE) is a structural engineering company established in 200 working on diverse projects as part of the 3K Engineering Group, operating in Ethiopi Central Europe, and other international markets.

We are excited to offer a structural engineering internship opportunity for at least 3 prospective Civil Engineering graduates of the academic year 2024/2025.

We kindly request your esteemed institution to assist us in recruiting structural engineerin interns with a CGPA of 3.5/4.0 or higher, strong analytical and communication skills, as well as proficiency in English and undertaking graduation project in structural engineering

Thank you for considering our request.

Sincerely,

Dawit Kebede

Dawit Kebede (M.Sc., MBA, PPST, PMP)

CEO

TO Dr. Beshanemeskel & Dr
For your action.
23/08/25

9: Bole Road, TK International Building 2, Room # 305 | P.O.Box 2701 Code 1250, Addis Ababa, Ethiopia | Email: info@aee.com.et | Tel: +251-(0)
Fax: +251-(0)11-6184064 | AEE Web: aee.com.et | 3K Group Web: www.3k-ingenieure.com/english.html | Memberships: ECEAA, EACE, AACCSA | Certified: IS

Eyob Tefrie
Founder & CEO
Utopia Investment Group
Email: utopiaplc21@gmail.com
Phone: +2519 11236281
Date: 15/08/25

To:
College of Technology and Built Environment
Addis Ababa University
Addis Ababa, Ethiopia

Subject: Request to Recruit High-Performing Hardware Engineering Graduates for IoT-Based Water Sensor Project

Dear Sir or Madam,

I hope this letter finds you well.

I am writing on behalf of **Utopia Investment Group**, a multidisciplinary Ethiopian enterprise focused on innovation, infrastructure, and inclusive development. One of our flagship ventures, Wuha Go, is a tech-powered water logistics platform currently addressing the urgent challenge of urban water access in Addis Ababa.

As part of our growth and innovation roadmap, we are developing Wuha Sensor—an IoT-based hardware solution designed to monitor water tank levels and water quality in real-time to optimize water delivery using data. This initiative will play a central role in building more efficient and sustainable urban water systems in Ethiopia.

We are designing two core sensor modules for this project:
1. A water level sensor for tank monitoring and dispatch optimization.
2. A water quality sensor (e.g., pH, turbidity, contamination) for ensuring delivery of safe, clean water.

To accelerate this initiative, we are seeking to recruit exceptional fresh graduates from your esteemed College, particularly those with strong academic performance in the following relevant areas and programs offered by CTBE:

① To: Dr. Slagad
For your Action
18/08/2025

② To: -SEEE
-SCITE
-SMME
-SBME
-SCBE
-SCEE
Pls post this opportunity to your fresh graduates
Aug 18/2025

TO Abraham K.
Pls post it so that our fresh graduate can reach it.
18/8/25

RECEIVED
15 AUG 2025

Why joining Civil & Environmental Engineering @ AAU?

- Best instructors of Civil & Environmental Engineering in Ethiopia that will make you the prior choice by employers /academia.
- Best laboratory facilities that will equip you with the practical aspect of the courses.
- Excellent computing facilities.
- Better opportunity not only in Ethiopia and East Africa but also across the globe.
- As of 2018 EC the school, in collaboration with the staff who owns projects, has planned to offer paid on school-work opportunities to outstanding students of the school.
- You can easily establish, manage & run your own engineering firm.

Why joining Civil & Environmental Eng'g … Cont'd

- Considering the vast opportunities at the School of Civil & Environmental Engineering, the school encourages you to join the oldest and yet dynamic field of Engineering at AAU and enjoy achievements and get linked with the senior staff for your future careers in the academics as well as the practice.

Thank you!!!

School of Civil & Environmental Engineering
September 2025