African Railway Center of Excellence (ARCE)
Addis Ababa University, AAiT
Ethiopia

Abrham Gebre (PhD)
Deputy Director of ARCE

October 16, 2018
Vision

TO BE THE LEADING RAILWAY CENTER IN AFRICA AND CENTER OF EXCELLENCE IN RESEARCH, EDUCATION AND TRAINING
Research Areas

1. Developing Optimum Inspection, Maintenance and Renovation of Railway Infrastructure
   • Signaling and communication systems, Power supply, Rolling Stock components,

2. Quality assurance and evaluating the performance of Railway Infrastructure
   • Hydrology and hydraulic, Railway Crossing facilities, and others
   • Wheel – Rail Interaction
   • Track structure,
   • Bridges and Tunnels

3. Capacity analysis of Railway System
   • Integration of Railway Systems
   • Operations, management
Partnership with Institutions

• ARCE has 5 national, 4 regional and 5 international partners

• ERC (Ethiopian Railways Corporation) one of the major partner from the railway industry

• International partners:-
  
  • Southwest Jiaotong University, China (MoU and Partnership Agreement)
  
  • Central South University, China (MoU)
  
  • Norwegian University of Science and Technology (NTNU)
  
  • Korean Railway Research Institute (KRRI), Korea
  
  • Korean Institute of Machinery and Materials (KIMM), Korea
Interested collaboration areas

• Staff and Student Exchange

• Academic and Policy Research and Publication
  • Joint PhD supervision
  • Joint research
  • Research publications
  • Commercialization research outputs

• Institutional Capacity Building
  • Staff capacity building
  • Curriculum development and revision
  • Equipping research labs
Welcoming ceremony for National and Regional Students