



## ABOUT ESKOM

Eskom generates, transports and distributes approximately 95% of South Africa's electricity – making up 60% of the total electricity consumed on the African continent. It is the world's eleventh-largest power utility in terms of generating capacity, ranks ninth in terms of sales, and boasts the world's largest dry-cooling power station. Eskom sells power directly to some 6 000 industrial, 18 000 commercial, 70 000 agricultural and 3 million residential customers. It is largely reliant on pulverised coal as its primary energy source but it owns and operates a number of coal-fired, gas-fired, hydro and pumped storage power stations, as well as one nuclear power station. Its 26 000 kilometres of transmission lines span the entire country and extend into most Southern African Development Community (SADC) countries.

Eskom's operations are located in South Africa, with its head office being located in Johannesburg. It plays a major role in accelerating growth in the South African economy by providing a high-quality supply of electricity to satisfy the needs of the country. Eskom's vision is *"Together building the powerbase for sustainable growth and development"*. This vision reflects the responsibility of the company to the country to ensure that current and future capacity requirements are met in a sustainable manner that catalyses economic development.

Starting from 2008 Eskom initiated a scholarship programme in cooperation with BTU Cottbus, Germany. The scholarships are offered by the Eskom Research and Innovation Department (ERID), a part of the Corporate Services Division of Eskom, which is responsible for the planning and implementation of the Eskom technical and related research programme. The department also provides a variety of other services to the Eskom organisation including scientific and technical advice and consulting, analysis, detailed design as well as providing strategic technical planning services and direction.

The activities of ERID are focussed on;

1. Increasing **Generation Capacity, and Performance**
2. Increasing **Transmission Capacity, and Performance**
3. Improving **Distribution's technology, practices and network reliability.**
4. Implementing **Asset Management** Principles
5. Ensuring appropriate **Coal Quality** and efficient **Coal Combustion**
6. Improving effectiveness of **Demand Side Management** and **Energy Efficiency** drives.
7. Slowing and adapting to **Climate Change.**
8. Increasing **Renewable Energy** use.
9. Understanding and Reducing **Environmental** Impacts.
10. Improving levels of **Safety, Health and Social Investment.**
11. Enhancing **Human Performance** and facilitating **Knowledge Creation.**
12. Leveraging **Research Memberships** and technical networks and partnerships.
13. Exploring **Future Technologies.**
14. Promoting a culture of **Innovation.**

## SCHOLARSHIPS

Eskom will grant up to 10 scholarships per year for South African and African bachelor graduates (in this order of preference) enrolled to the MSc Power Engineering at BTU Cottbus. Study may be undertaken in Electrical Power Engineering, Power Plant Technology or Sustainable Energy supply but Eskom reserves the right to have final approval of the research topic to be studied. Two types of scholarship are offered:

- 5 full scholarships, the contribution of which comprises 800 € a month for 24 months, which is meant to cover all student's expenses. The students receiving this scholarship will conduct an internship of 6 to 10 weeks and write a master thesis (ca. 4 months) at one of the Eskom companies in South Africa. The students are also obliged to work for Eskom for a minimum of two years after completion of the studies as part of the contribution of the scholarship.
- 5 partial scholarships, the contribution of which comprises 250 € a month for 24 months, which is meant to cover basic student's expenses. The students receiving this scholarship will conduct an internship of 6 to 10 weeks and write a master thesis (ca. 4 months) at one of the Eskom companies in South Africa. The students are also obliged to work for Eskom for a minimum of six months after completion of the studies in order to transfer the knowledge they obtained into Eskom.

Application for these scholarships will be possible after admission to the master programme in Power Engineering at BTU Cottbus. The following documents are required for the scholarship application:

- Letter of motivation
- CV
- Copy of a bachelor diploma
- Transcript of records
- Letter of Admission to the master programme Power Engineering at BTU Cottbus

Complete application with all the necessary documents has to be sent to BTU Cottbus (Prof. Schwarz) until August 15<sup>th</sup> each year. The final decision on the selected candidates will be taken by Eskom in September each year.

### **For more information contact**

Eskom

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