



# AIMS

African Institute for  
Mathematical Sciences  
SCHOOLS ENRICHMENT CENTRE

6 Melrose Road, Muizenberg  
Cape Town 7945, South Africa  
T: +27 (0)878213414  
Email: [info@aimssec.ac.za](mailto:info@aimssec.ac.za)  
<https://aimssec.ac.za>

## Advertisement for Mathematics Education Lecturer (Intermediate Phase) at AIMSSEC

The African Institute for Mathematical Sciences Schools Enrichment Centre (AIMSSEC), in Muizenberg, Cape Town, invites applications from suitably qualified and experienced candidates for the position of Mathematics Education Lecturer (Intermediate Phase). This is a part - time, two - year contract, with a possibility of extension, depending on performance and availability of outside funding.

### About AIMSSEC:

Since its inception in 2003 AIMSSEC's focus has been on teacher professional development, running a variety of blended-learning courses for in-service mathematics teachers and teacher trainers concentrating on deepening Technological-Pedagogical-Content Knowledge (TPACK) and introducing effective teaching strategies suitable for the 21<sup>st</sup> century. AIMSSEC is building capacity to meet the urgent need for upgrading of teachers' subject, pedagogical and educational technology knowledge and skills, and the pressing demand from teachers for professional development. Many teachers with no mathematical qualifications are required to teach mathematics. These teachers must be trained and upskilled to become proficient mathematics teachers to give young learners in South Africa their entitlement to a good mathematical education. Teachers everywhere require lifelong learning to keep up to date with content knowledge, teaching techniques and the changing demands of the world of work. AIMSSEC offers Mathematics Subject Leader Training courses through distance learning to empower teachers who, in turn, will train other teachers.

**Line Manager:** Academic Manager of AIMSSEC.

### Duties

1. Design, develop and write distance-learning study materials (mathematics, and didactics) for SACE Endorsed professional development courses for Intermediate Phase teachers (grades 4 to 6) including, but not limited to, the sequence of seven AIMSSEC professional development courses. Note that only four of these courses are offered in any one year.
  - 1.1 Mathematical Thinking (**MT**).
  - 1.2 Mathematical Communication and Language (**MCL**).
  - 1.3 Differentiation and Inclusion in the Mathematics Classroom (**DIMC**).
  - 1.4 Mathematics Skills and Competences for Employment (**MSCE**).
  - 1.5 Conceptual Development and Progression (**CDP**).
  - 1.6 Action Research (**AR**).



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- 1.7 Subject Leadership (**SL**), Training Future Leaders in Mathematics Education.
- 1.8 Any new courses that might be developed.
2. Deliver lectures, seminars, and tutorials in contact sessions and online.
3. Support and advise students including online support.
4. Assess coursework and assignments for the distance-learning courses.
5. Supervise students' Action Research and train them to run self-help workshops for other teachers.
6. Carry out the duties of an examiner for partner universities.
7. Undertake administrative tasks related to AIMSSEC projects, such as the organisation of residential courses, timetabling and student admissions, induction programmes and involvement in committees and boards.
8. Represent the institution at professional conferences and seminars and contribute to these as necessary.
9. Undertake continuous professional development (CPD) and participate in staff training activities.
10. Develop and implement new methods of teaching, using multimedia technologies and e-learning, in response to research and development in mathematics education in the intermediate phase.
11. Assist with evaluation of the courses/programme.

### **Desirable but not essential duties**

1. Undertake personal research projects and actively contribute to the institution's research profile.
2. Establish collaborative links outside the institution with industrial, commercial and public organisations.
3. Undertake publicity tasks by providing news items for the AIMS newsletter and quarterly AIMSSEC newsletter and annual brochure.



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## **Requirements:**

**Applicants must provide evidence of the following. Claims by applicants that they can meet the requirements are not sufficient.**

- At least four years relevant experience in mathematics teaching in schools including two years in some leadership and management capacity.
- At least four years relevant experience of teaching on professional development courses for mathematics teachers and in supporting the teaching of mathematics in schools.
- Excellent interpersonal and relational competencies.
- High level of professional engagement in teacher education and curriculum development.
- High level of computer proficiency as appropriate to school mathematics.
- Excellent writing and oral communication skills.
- Flexibility and willingness to work after hours and on weekends when necessary.
- Willingness to travel.
- A valid unendorsed South African driver's license and own transport.

## **Advantageous:**

- Experience of conducting research in mathematics education.
- Proficiency in information communication systems.
- Proficiency in additional languages such as isiZulu, and/ isiXhosa, and / or Afrikaans.
- Enthusiasm to work in a culturally diverse organisation.
- Has done voluntary work (in any capacity).

Non-South African citizens must have (or obtain) a valid South African work permit or be a permanent resident.

**Commencement of duties:** 1 October 2023 (or earlier)

**Closing date for applications:** 9 June 2023

**Enquiries:** Dr Barrie Barnard, AIMSSEC Academic Manager, tel. +27 (0)878213414 or [barrie@aims.ac.za](mailto:barrie@aims.ac.za)

**For more information on AIMSSEC and AIMS, please visit <https://aimssec.ac.za> and <https://www.aims.ac.za>**

## **Prospective candidates must submit the following:**

- a detailed CV, together with the names of at least three referees. These referees may be contacted directly by the selection committee at any stage of the selection process, and
- a covering letter motivating the application;
- include in the covering letter the following declarations (to be completed by all applicants):



Are there any circumstances relevant to your application of which you should make the selection committee aware of? (if so, particulars are required).	Yes	No
	If yes, then please attach a separate page	
Are you facing, have you faced, or do you envisage having to face any disciplinary (professional or criminal) charges? (if so, particulars are required).	Yes	No
	If yes, then please attach a separate page	
Have you been found guilty of professional misconduct or a crime? (if so, particulars are required).	Yes	No
	If yes, then please attach a separate page	

- Send applications to:  
The Academic Manager,  
AIMSSEC,  
6 Melrose Road, Muizenberg,  
7945,  
or electronically to: [vacancies@aimssec.ac.za](mailto:vacancies@aimssec.ac.za) **Submit as one PDF file.**

**Only shortlisted candidates will be contacted for interviews.**

**An application which does not comply with the above requirements will be regarded as incomplete. AIMS South Africa reserves the right not to make an appointment, to re-advertise or to extend the deadline for applications.**

*AIMS will consider all applications in terms of its Employment Equity Plan, which acknowledges the need to diversify the demographic composition of the staff corps, especially with regard to the appointment of suitable candidates from the designated groups.*

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