

AUSTRALIA

INTERNATIONAL TRAINING INSTITUTE
Middle Head Road, Mosman, New South Wales

Enquiries to	Principal
General Information	Specially set up by the Australian Development Assistance Bureau (ADAB) for students and trainees from developing countries coming to Australia under bilateral assistance provisions. Provides short, intensive, vocationally-oriented courses and concentrates on the needs of Papua New Guinea and the Pacific region in particular. Usual duration is twelve weeks and usual number attending each course is fifteen.
Language of instruction	English
Residence	Yes (off-campus)
Administration	By Ministry of Foreign Affairs through ADAB with an advisory council to advise the Principal. Students/trainees, all from developing countries (with present concentration on PNG and Pacific), receive Australian Government awards under bilateral agreements with recipient governments.
Courses	12-week courses of interest to technical teachers include courses for school inspectors, for educational administrators in non-formal education, and for persons involved in the development and production of educational resources.

BAHAMAS

COLLEGE OF THE BAHAMAS
P O Box N4912, Nassau

Enquiries to	Academic Dean
General Information	Established 1974 as multi-purpose, tertiary level institution to meet Bahamas society's need for better education, more highly skilled and technically prepared citizens. Has about 1800 students. Consists of seven teaching divisions and a library division. Twelve students were in training as technical teachers in mid-1980.
Language of instruction	English
Residence	No; except for some accommodation for students from (Family) Out Islands.
Administration	Council, under Ministry of Education and Culture. Financed by Government. Most students pay for own tuition but Ministry provides scholarships/bursaries in some fields. Non-nationals have attended College and more could be considered.
Course	3-year Industrial Arts Teachers', leading to Associate Degree and Teacher's Certificate, for industrial arts instructors at junior and senior high schools. 5 GCE 'O' levels required, including English and Maths.

BARBADOS

BARBADOS COMMUNITY COLLEGE
Howell's Cross Road, St Michael

Enquiries to	Principal
General Information	Founded in 1969 and re-housed in new buildings in 1977. Organised in Divisions of Liberal Arts, Science, Technology, Commerce, Health Sciences, and Hospitality (Hotel) Studies. Total student enrolment, 1800. Secondary technical teachers are trained in the Division of Technology.
Language of instruction	English
Residence	No
Administration	Board of Governors, under Ministry of Education and Culture. Financed by Government; part capital cost of new building by loan from Inter-American Development Bank. Trainees fully funded by Government; sponsored non-nationals can be admitted.
Course	2-year technical teachers' leading to Certificates awarded by College and University of the West Indies for teachers in secondary schools. 4 GCE 'O' levels required including English and technical subjects. Industrial attachments arranged; co-operation with Erdiston College and UWI School of Education. The College also runs a 1-year Diploma Course in Art and Craft Education.

ERDISTON TRAINING COLLEGE
Pine Hill, St Michael

Enquiries to	Principal
General Information	A 2-year teacher education institution, training primary and secondary teachers. Established in 1948. Total student enrolment, 260, of whom a small number (10 in May 1980) are trained as secondary technical teachers.

Language of instruction	English
Residence	Partial (male and female).
Administration	Ministry of Education and Culture. College and trainees funded by Government; some assistance from Organisation of American States in educational technology and special education, and loan from Inter-American Development Bank for development of library and resource centre.
Course	2-year secondary technical teachers', leading to Certificate awarded by College and UWI. 4 GCE 'O' levels required including English and a technical subject. Industrial attachments arranged; co-operation with Community College and UWI School of Education.

BOTSWANA

BOTSWANA POLYTECHNIC
Private Bag 0061, Gaborone

Enquiries to	Chief Technical Education Officer, Ministry of Education, Private Bag 005, Gaborone
General Information	Developed out of former National Centre for Vocational Training, which opened 1974 and initially offered craft courses in construction, mechanical and electrical fields, which in 1976 became City & Guilds courses. In 1979 it attained Polytechnic status; City & Guilds technician courses have been developed since, and a woodwork teachers' course has been introduced.
Language of instruction	English
Residence	Male and female.
Administration	Managed by Ministry of Education and financed by Government; assistance from Swedish IDA and UK Government (ODA/TETOC). Local sponsored students pay fees of £280 p.a. including food and accommodation.
Course	3-year course for teachers of woodwork, consisting of 2 years' skills upgrading (City & Guilds 834/6) followed by 1 year teacher training, leading to Teacher's Certificate and CGLI Certificate. Entry qualification: Cambridge School Certificate.

CANADA

The nature and scope of education and training for technical, vocational, and industrial arts teachers varies from Province to Province. Generally, it is a university function, and in at least six of the Provinces there are universities (see selective list below) with programmes accessible to overseas students which lead to either a Diploma or a Bachelor's degree in Education. In ONTARIO, there are four such universities, teaching being in English except at the Université d'Ottawa (French). In QUEBEC the constituent universities of the Université du Québec are concerned with technical teacher training (teaching is in French). So also are the University of New Brunswick (where the language of instruction is English) and the Université de Moncton (French). The University of New Brunswick has been engaged on a major special programme for students from Kenya (see entry for Kenya Technical Teachers' College).

In Provinces where the main institution concerned with technical, vocational, or industrial arts teachers is not a university, the programmes have varied approaches and some of them are confined to in-service training. In ALBERTA, the Northern Alberta Institute of Technology, run by Alberta Advanced Education and Manpower, is mainly concerned with the pedagogical development of its own new instructing staff but has been making special provision for students from other countries.

In NOVA SCOTIA the in-service course leading to a vocational teaching certificate is run by the Secondary Regional Vocational Schools branch of the Nova Scotia Department of Education. In MANITOBA the Teacher Education Section of the Red River Community College has a one-year (September to June) vocational industrial education course for students with an extensive technical background. In PRINCE EDWARD ISLAND the Charlottetown Centre of Holland College also provides an in-service training programme that concentrates on pedagogy and requires technical qualifications and competency and industrial experience for entry.

Further details of selected facilities (this is not an exhaustive list):-

BRITISH COLUMBIA
UNIVERSITY OF BRITISH COLUMBIA
Division of Industrial Education
Faculty of Education
3750 Willington Avenue, Burnaby, British Columbia

Enquiries to	Chairman
Language of instruction	English
Residence	No
Administration	By Chairman (of Division) under direction of Dean of Education. There is an advisory committee of University and Government representatives. Financed by Provincial Government.
Course	The programme, for technical teachers in secondary schools, leads to B. Ed. degree and there are numerous engineering options in the technical phase.

SASKATCHEWAN
UNIVERSITY OF SASKATCHEWAN
College of Education, Saskatoon

Enquiries to	Chairman, technical - vocational programme.
Language of instruction	English
Residence	No, but some is available off campus.
Administration	By Board of Governors. Financed mainly by Provincial Government.
Course	3-year leading to B. Ed. degree for technical teachers in secondary schools.

ALBERTA
NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY
11762 - 106 St. Edmonton

Enquiries to President

Language of instruction English

Residence No

Administration By Alberta Advanced Education and Manpower.

Course No formal teacher training programme. During past four years the Institute has designed and delivered programmes to meet individual needs of international students. They contain three components, technical up-grading, teacher training (in which trainee, as understudy to an instructor, observes and participates in instruction and administration), and industrial experience. Institute participates in such programmes on understanding that adequate lead time is given and full information provided about the students (and their expectations), their home countries and sponsoring agencies.

NEWFOUNDLAND
MEMORIAL UNIVERSITY OF NEWFOUNDLAND
Division of Vocational Education
St John's, Newfoundland

Enquiries to Director

Language of instruction English

Residence Partial (male and female)

Courses	(i) 1-year leading to Diploma in Vocational Education for teaching in all fields, including business and health occupations. Entry qualifications: Matriculation or 5 'O' levels, or mature adult, plus 6 years' training and work experience (majority of students are in-service). (ii) 3-year leading to B. Vocational Education. Entry qualifications as above. (iii) 3 summers, for industrial arts teachers in secondary schools. Entry qualification: degree in Education.
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NOVA SCOTIA
 SECONDARY REGIONAL VOCATIONAL SCHOOLS
 Nova Scotia Department of Education
 Box 578 - Trade Mart Building, Halifax, Nova Scotia

Enquiries to	Inspector of Vocational Education
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Language of instruction	English
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Residence	No
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Administration	By Nova Scotia Department of Education, directly.
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Course	In-service. 3 summer school sessions, for total of 230 hours, leading to Vocational Teaching Certificate and covering principles and practice of vocational education, teaching methods in vocational education, etc. for teachers in secondary schools (but some work in institutes of technology and others in adult education).
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PRINCE EDWARD ISLAND
 HOLLAND COLLEGE
 Charlottetown Centre, Weymouth Street
 Charlottetown, Prince Edward Island

Enquiries to	Chairman, Applied Arts Division
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Language of instruction	English
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Administration	By Board of Governors. Financed by Provincial Government.
Course	Professional development, for instructors and secondary teachers. Entry qualifications: grade 12, trade/technical qualification, 3 years' experience with record of achievement.
ONTARIO UNIVERSITY OF TORONTO Faculty of Education Technical & Industrial Arts Department 371 Bloor St. West, Toronto, Ontario M5S 2R7	
Enquiries to	Chairman, Technical and Industrial Arts Department
Language of instruction	English
Residence	Yes, on and off campus (male and female).
Administration	By University of Toronto, which grants Diploma in Technical Education or B. Ed. (for students who have a first degree): teacher certification is function of Ministry of Education on Dean's recommendations.
Course	8 months professional courses in all aspects of pedagogy for technical teachers training in secondary schools, but also in technical institutions leading to Diploma or B. Ed. (as above).

UNIVERSITY OF WESTERN ONTARIO
Althouse College
Faculty of Education
1127 Western Road, London, Ontario N6L 1G7

Enquiries to	Programme Director
Language of instruction	English
Residence	Male and female.
Administration	University of Western Ontario, which grants Diploma in Education or B. Ed. (for students who have a first degree).
Course	8 month pre-service professional courses (September to April) for technical teachers mainly in secondary schools but also in technical institutions; also in-service and up-grading courses leading to specialist standing, for certificated teachers, during summer and during winter evenings.

UNIVERSITÉ D'OTTAWA
Faculte d'Education (Formation a l'enseignement)
651 rue Cumberland
Ottawa, Ontario

Enquiries to	Programme Director
Language of instruction	French
Residence	Male and female.
Administration	By Université d'Ottawa. Students from other Provinces and countries are welcome.

Courses 3 main courses: (i) initial basic course in technical education leading to Brevet d'Enseignement de l'Ontario (BEO);
(ii) for holders of BEO with a technical specialisation, a basic special method course in that subject;
(iii) an advanced course for holders of BEO with superior educational and specialist qualifications;
all for teachers of technical subjects at intermediate and secondary levels.

QUEEN'S UNIVERSITY, KINGSTON
Kingston, Ontario

Enquiries to Chairman, Science, Mathematics and Technical Studies

Language of instruction English

Residence For 60-70% of student body (male and female).

Administration By Queen's University, Kingston, which awards Diploma and B. Ed.

Course Professional courses for technical teachers in secondary schools leading to Diploma in Technical Education or (for holders of first degree) B. Ed. One session (of two) consists mainly of 2 x 8-week sessions with a year's teaching between them.

QUEBEC
UNIVERSITÉ DU QUEBEC
(i) à Chicoutimi: 930 est, rue Jacques Cartier, Chicoutimi G7H 2B1
(ii) à Montreal: Pavillon Lafontaine, 1301 rue Sherbrooke est, local 1110
(iii) à Rimouski: 300 ave des Ursulines, Rimouski G5L 3A1
(iv) à Trois-Rivieres: CP500, Trois Rivieres, G5A 5H7
(v) centre des etudes universitaires dans l'ouest quebécois, Module Education, CP 1250 -- Succursale B, 103 rue Montcalm, Hull J8X 3X7

Enquiries to	Vice-Rector at each campus.
Language of instruction	French."L'Université du Quebec est une institution francophone. Comme tous les courses s'y donnent en francais, il est indispensable de maitriser cette langue pour s'y inscrire".
Residence	Partial (male and female).
Administration	By University of Quebec.
Courses	(i) 1-year (or 30 credits) course leading to certificat de psycho-pedagogie. (ii) 3-year (or 90 credits) course leading to baccalaureat d'enseignement professionnel (both technical and commercial). There is also a programme of applied research, and of short ad hoc courses.

CYPRUS

HIGHER TECHNICAL INSTITUTE

P O Box 2423, Nicosia

Cables: HTI NICOSIA

Enquiries to

Director

General Information

Established 1968 as Cyprus Government project with assistance of UNDP/UNESCO and ILO. No special full-time course for technical teacher training; but students in the engineering departments (training civic, civil mechanical, electrical and marine technicians) can study Education and Methodology during third (final) year, and some become instructors at vocational and technical schools or in industry.

Language of instruction

English

Residence

No; assistance offered to obtain accommodation.

Administration

Ministry of Labour and Social Insurance, advised by Board of Governors. Financed by Government. Most Cypriot students are self-supporting but some have tuition fees paid by Government, or receive awards sponsored by Cypriot organisations. A few hold international fellowships; under HTI's terms of reference a proportion of places are allocated to overseas candidates, and students from Kenya, Bangladesh, Zimbabwe, Nigeria, Jamaica, Ghana, Uganda, Guyana and some foreign countries have attended full-time courses.

Courses

The engineering students concerned take 3-year full-time courses leading to HTI Diploma of Technician Engineer and involving periods of practical training in industry, and can obtain additionally HTI Teaching Certificate as above.

HOTEL AND CATERING INSTITUTE
P O Box 4812, Nicosia

Enquiries to	Director or Registrar
General Information	A Central Hotel Training School was established in 1965. The HCI was established in 1969 as a joint project of ILO and Government of Cyprus. In 1971 the two institutions merged. The HCI complex also embraces the Philoxenia Hotel and the International Conference Centre. The comprehensive range of courses includes the training of instructors in hotel and catering subjects.
Language of instruction	English
Residence	Male and female
Administration	By Ministry of Labour and Social Insurance with assistance of Board of Directors; financed by Government. Trainees include a number from other countries funded by CFTC, ILO, own government, or self-financed.
Courses	Tailor-made courses are offered to suit needs of particular groups of teachers, on request (which must be well in advance). A regular course in methodology for instructors in hotel professions lasts 32 working weeks, including field trips, and also provides for supervisors and those concerned with manpower development in the industry. Industry-based candidates must have 3 years (minimum) responsible experience in the industry, and new entrants a degree or diploma, preferably in hotel, catering, travel agency or tourism area.

FIJI

FIJI INSTITUTE OF TECHNOLOGY
P O Box 3722, Prince's Road, Samabula

Enquiries to	Principal
General Information	Formed in 1979 out of former Derrick Technical Institute on completion of major developments. Supplies needs of Fiji for craft, technician and sub-professional education, also a growing proportion of technical education needs of South Pacific region. Has close association with University of South Pacific and Nasinu Teachers' College (see both). One of eight "schools", School of General and Secretarial Studies is responsible for training technical teachers (about 40 p.a.)
Language of instruction	English
Residence	Limited number of places (male) in hostel for students from neighbouring South Pacific islands and remote parts of Fiji.
Administration	Managed and financed by Government of Fiji (Ministry of Education), through a Council. Staffing and capital assistance from various sources including UK, Australia, New Zealand, Japan and UNDP. Home students funded by Fiji Government scholarships; attendance of overseas teacher trainers could be considered given necessary funding.
Courses	(i) 3-year full-time, leading to Diploma in Education (multi-craft), with specialisation in building or mechanical engineering for secondary technical and multi-craft teachers. Entry qualifications: School Certificate (normally New Zealand) in maths, science, English. Minimum age 18, no practical experience needed. Involves about 6 months' teaching (assessed) in secondary school system. (iii) 1-year part-time (in-service) leading to Technical Teachers' Certificate for serving tertiary-level craft and technician teachers (assistant lecturers and above). The school also runs periodical modular courses on methodology, assessment procedures, etc.

NASINU TEACHERS COLLEGE
Private Mail Bag, Suva

Enquiries to	Principal
General Information	Largely engaged in educating and training primary school teachers. Runs conversion courses for trained teachers wishing to teach Industrial Arts, Home Economics, Music, PE and Art and Craft in secondary schools.
Language of instruction	English
Residence	Limited
Administration	Managed and financed by Ministry of Education. Will consider students from other countries (funded by own governments or aid agency), and has accepted a number from South Pacific region for the Industrial Arts course.
Course	1-year Industrial Arts course includes woodwork, technical drawing and basic metalwork, and involves 5-6 weeks' attachment to a secondary school. Candidates should preferably have some knowledge of technical education.

FIJI (REGIONAL)
UNIVERSITY OF THE SOUTH PACIFIC
P O Box 1168, Suva Cables: UNIVERSITY SUVA

Enquiries to	Head of Industrial Arts or Head of Home Economics
General Information	Established 1970 on basis of 1966 Report of Higher Education Mission to South Pacific (appointed by agreement between Governments of Britain, New Zealand and Australia), as expanded and modified by subsequent enquiries, to serve as main University centre for 11 South Pacific island countries. Is concerned with development of personnel to fulfil regional needs. Carries out responsibilities in technical teacher training area through Department of Home Economics (65 trainees)

Language of instruction	English
Residence	Male and female.
Administration	Governing Council. USP is financed by the Governments of the region with assistance from bilateral (e.g. NZ, UK) and international (e.g. UNESCO, ILO) aid agencies. Most trainees hold scholarships from their respective Governments, but some are privately funded and others hold fellowships of aid agencies; candidates from other countries considered.
Courses	(i) 3-year industrial arts teachers' (a general technical education course including appropriate technology), leading to Diploma in Industrial Arts Education. (ii) 4-year industrial arts teachers' (a general technical education course including professional education) leading to B. Ed. in Industrial Arts Education.

GHANA

ADVANCED TECHNICAL TEACHERS' COLLEGE
P O Box 1277, Kumasi

Enquiries to	Director
General Information	Established 1959 as Technical Teacher Training Centre at Kumasi Polytechnic. Became "Advanced College" in 1977 and Diploma-awarding institution in 1979, with courses for business education, industrial arts, and technical/vocational teachers. 206 are in training.
Language of instruction	English
Residence	Male and female.
Administration	By Ghana Education Service through Board of Governors. Financed by Government. A few students/trainees from other countries have attended with bilateral or international fellowships, and more could be considered.
Courses	(i) 3-year Diploma in Business Education for teachers in commercial/technical institutions and secondary schools. Entry qualifications: GCE 'A' level or RSA Stage III or equivalent, plus 3 years' teaching. (ii) 3-year Diploma in Industrial Arts Education for teachers in secondary technical schools. Entry qualifications: Final City & Guilds or equivalent, or Advanced Handicraft Certificate, plus 3 years' teaching. (iii) 1-year Certificate in Education for technical vocational teachers in technical and secondary schools. Entry qualification: Final City & Guilds or equivalent. (iv) 1-year Certificate in Education for business education teachers in commercial/technical institutions and secondary schools. Entry qualification: RSA Stage III or equivalent. Courses include teaching practice between sessions. College also runs short courses and special ad hoc courses.

MAMPONG TECHNICAL TEACHERS' COLLEGE
Mampong

Enquiries to	Principal
General	Established 1922 as Trade School. Became Training College for Handicraft Teachers in 1960 . In 1976 introduced present 3-year programme for teachers of craft subjects in elementary schools, covering woodwork, metalwork, masonry, and electrical and automobile engineering.
Language of instruction	English
Residence	Male and female.
Administration	By Ghana Education Service, through Board of Governors; financed by Government. A few students from other countries have attended, with the aid of fellowships.
Course	3-year course for teachers of craft subjects in elementary schools leading to Teachers' Certificate. GCE 'O' level or intermediate City & Guilds or equivalent required.

GUYANA

IN-SERVICE TEACHER TRAINING COLLEGE
Battery Road, Kingston, Georgetown

Enquiries to	Supervisor
General Information	The College is responsible for programmes of in-service training for teachers of industrial arts; home economics (through the Carnegie School of Home Economics); and agricultural science (through the Guyana School of Agriculture):- to work in secondary schools and vocational schools. The current diversified programme called "industrial arts" (wood, metal, electricity, power, mechanics) succeeded "practical work" optional in the general teacher education programme in 1978. In April 1980 there were 95 trainees on this programme. A new Technical Teachers' College is being constructed.
Language of instruction	English
Residence	No
Administration	By Ministry of Education. Financed by Government. No fees - trainees are unqualified teachers attending on an in-service basis.
Course	The industrial arts teachers' course leads to a Trained Teachers' Certificate. Entrants must have 4 GCE 'O' levels, or City & Guilds craft/technician certificate; they may be pupil teachers who have completed fourth year examination or holders of specially relevant qualifications approved by Ministry.

HONG KONG

HONG KONG TECHNICAL TEACHERS COLLEGE
373 Queen's Road East, Wanchai

Enquiries to	Principal
General Information	Established 1974; at present housed in temporary quarters; permanent premises to be provided in 1982. Number of trainees: 170 full-time, 227 part-time.
Language of instruction	English
Residence	No
Administration	Managed and financed by Government (Education Department). Trainees funded by Government or employer or individual; trainees sponsored by international agencies could be considered.
Courses	(i) Design & Technology; (ii) Commercial Studies: 2-year full-time, leading to Technical Teachers' Certificate for teachers for secondary schools (including grammar and technical); with 1 month summer training in industry/commerce. Entry qualifications for (i): Hong Kong Certificate of Education with grade E or above in English Language, Chinese, Maths and Technical Drawing - plus appropriate technical subject; for (ii) Hong Kong Certificate of Education with grade C or above in English Language; grade D or above in Chinese, Typewriting and Principles of Accounts, plus appropriate commercial subject. (iii) 1-year full-time courses in Construction; Electrical Engineering; Hotel & Catering; Marine; Fabrication; Mechanical Engineering Design; leading to Technical Teachers' Certificate for teachers for Technical Institutes and pre-vocational schools, with teaching practice. Entry qualifications: Technicians' O or H Diploma, H Certificate or equivalent, followed by 2 years' relevant experience.

(iv) To improve teaching of technical subjects: 2-year part-time day release course (1 day per week) leading to certificate of status as "qualified teacher" in secondary technical schools, TI's or Polytechnics.

(v) To improve teaching of technical subjects: 3-year part-time evening course leading to certificate of status as "qualified teacher" in pre-vocational schools.

(vi) To train evening part-time further education teachers: 2-year part-time evening course leading to certification as part-time lecturer in evening technical schools or TI's.

(vii) For instructors working with the disabled: 1 day per week for 15 weeks leading to certificate in instructional work with disabled.

(viii) Industrial Trade Instructors' courses to develop effective instruction (block release, part-time day release, or part-time evening) leading to Certificate in Industrial Trade Instruction.

College also has programmes of short courses and seminars varying from 6 to 60 hours in areas such as skills analysis, student motivation, syllabus familiarisation, and visual aids; 90-hour industrial trade instructors' courses (part-time day release); and a 120-hour industrial training officers' course (block release).

INDIA

TECHNICAL TEACHERS TRAINING INSTITUTE

(Eastern Region)

7 Mourbhanj Road, Calcutta 23

Cables: RITTEAST

Enquiries to

Principal

General
Information

Established 1965, to prepare diplomates and graduates in engineering and technology for teaching technicians at polytechnics. Also has intensive programme of short courses; develops curricula; provides industrial training through placement; conducts research; prepares multi-media packages, text-books, teachers' manuals, resource books, demonstration models, laboratory equipment, etc., and is inter-TTTI leader for instructional film-making in technician education (UNDP project). 60 students are in training in Diploma programmes, 50 at a time attend short courses.

Language of
instruction

English

Residence

Male and female.

Administration

Financed by Government of India, run by Board of Governors, under Ministry of Education and Culture. Pays monthly stipend to Indian national trainees and their employers' (e.g. State Governments) salaries. Has been host to overseas trainees sponsored by various agencies, e.g. UNDP/UNESCO.

Courses

(i) Principal course for teachers at technician level, leading to Diploma in Technician Teaching and involving industrial attachment, is of 12 months' duration for B. Engineering holders, and 18 months for Diploma in Engineering holders (Civil/Mechanical/Electrical Engineering).

(ii) A 6-month in-service course for teachers at technician level leads to a Diploma in Science Teaching, for holders of M. Sc. (Maths/Physics/Chemistry).

(iii) Short courses on numerous engineering (civil/electrical/mechanical/electronics) topics, science and humanities, pedagogy and methodology last mainly for one or two weeks. They also cover, e.g. national testing service in technical education, film production, educational research, laboratory methods, educational management, industrial training, technician curriculum development, item banking, student motivation, evaluation and testing, and multi-media learning packages.

TECHNICAL TEACHERS TRAINING INSTITUTE
(Northern Region)
Sector 26, Chandigarh - 160026

Enquiries to

Principal

General
Information

Established 1967 as one of four regional TTTI's to train technical teachers for polytechnics, to meet needs caused by rapid development of technical education in 1960's. Collaborative agreement with Netherlands Government helped to establish and operate Institute through expert assistance, fellowships and equipment. Northern Region comprises Jammu and Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan, Uttar Pradesh and union territories of Delhi and Chandigarh. In addition to pre-service training for polytechnic teachers, Institute trains and prepares untrained or under-trained existing teachers; promotes research on classroom and laboratory techniques, methodology, etc., and on special methods for technical subjects, job analysis, and curriculum development; prepares and supplies information, teaching aids and instructional materials.

Language of
instruction

English

Residence

Male and female.

Administration

Through Board of Governors, under Ministry of Education and Culture, Government of India. Fully financed by Government of India.

Courses

- (i) 3 semesters each of 26 weeks, for diploma-holding teachers in Civil/Mechanical/Electrical Engineering.
- (ii) 2 semesters each of 26 weeks for graduate teachers in Civil/Mechanical/Electrical Engineering.
- (iii) 5 sessions - 3 summer and 2 winter - of total 40 weeks at Institute, including 4 weeks' industrial training; plus 3 sessions of assignment at sponsoring polytechnic; for graduate and post-graduate teachers of physics/chemistry/mathematics. Institute runs study conferences for principals and heads of department of polytechnics lasting 1 or 2 weeks and dealing mainly with modern teaching and training techniques.

Institute also runs programme of short courses with objectives such as boosting knowledge in emerging areas of technology, bridging gap between theoretical knowledge and practical application, up-grading the inadequately trained, familiarising with modern concepts, and training for implementation of new curricula.

TECHNICAL TEACHERS TRAINING INSTITUTE

(Southern Region)

Adyar, Madras 600 020

Cables: RITTSOUTH Madras

Enquiries to

Principal

General Information

One of four regional TTTI's providing long and short term programmes to improve quality of technician education. Caters for needs of about 5000 polytechnic teachers in about 108 polytechnics in Southern Region comprising Andhra Pradesh, Karnataka, Kerala and Tamilnadu and union territory of Pondicherry. First course leading to Diploma in Technical Teaching started 1966, two others leading to B. Technical Education of University of Madras, and Diploma in Science Teaching added in 1970's. Extension Centres set up in Kalamassery 1976 and Hyderabad 1977 to meet special local needs. Special programmes run for industry, universities, defence services, NCERT, etc. Through technical co-operation with UK Government (ODA/TETOC) and through Colombo Plan, aid received in form of experts, staff training and equipment.

Language of instruction

English

Residence	Male and female.
Administration	Through Governing Body, under Ministry of Education and Culture, Government of India. Fully financed by Government of India. In-service trainees sponsored by authority concerned are paid Rs 200/- p.m. stipend by Institute and salary from parent department. Candidates are admitted from other countries.
Courses	(i) 1-year leading to B. Technical Education, University of Madras, for technician teachers. Entry qualifications: degree in engineering or technology or sections A and B of AMIE in civil/mechanical/electrical/electronics, some teaching experience. (ii) 1-year leading to Diploma in Technical Teaching of the Institute, for technician teachers. Entry qualifications: Diploma in Engineering, at least 2 years' teaching experience. (iii) 13 months, leading to Diploma in Science Teaching of the Institute, for technician teachers (correspondence cum contact programme). Entry qualifications: degree in physics/chemistry/mathematics, 3 years' teaching experience in polytechnic. Period of industrial attachment provided as part of courses (i) - (iii). (iv) (newly introduced from 1980-81) 6 months, leading to Certificate of Institute for polytechnic teachers holding degree/diploma in diversified courses. Industrial visits arranged. In addition, Institute runs short courses and curriculum development workshops (50-60 p.a.) in such areas as subject up-dating, methodology, instructional aids, educational management, educational research, development of support materials.

TECHNICAL TEACHERS TRAINING INSTITUTE
(Western Region)

Shamla Hills, Bhopal - 462 002 Cables: RITTWEST

Enquiries to	Principal
General Information	One of four regional Institutes, the Bhopal Institute was founded in 1971, and initially offered teacher training programmes, but is now heavily engaged in areas such as curriculum development, examination reform, instructional materials preparation,

item banking, educational management and educational research. It operates in close co-operation with central and state governments, industry, international agencies, polytechnics in the region and polytechnic teachers. New installations, additional to well-established Resource Centre and Audio Visual Centre, include Closed Circuit TV Studio, Educational Film Production and Computer Centres. The Institute's approach to teacher education is "competency based" (CBE), directed towards the demonstration of a competence by actual performance emphasising goals rather than means and developing professionalism. About 60 trainees p.a. attend for Diploma and Masters' courses and 300 p.a. for short courses.

Language of instruction

English

Residence

Male and female.

Administration

Autonomous council, under general direction of Federal Government of India (Ministry of Education and Culture), and financed by that Government. Assistance received under Commonwealth Education Co-operation programme of UK Government (ODA/TETOC) and under UNDP/UNESCO project. Trainees funded by sponsoring agencies have included some from Bangladesh and Tanzania.

Courses

9 months' Diploma in Technical Teaching in-service course for teachers in technical institutions, including 12 weeks of industrial training. 4 semester in-service course leading to Master in Technical Education (3 semesters at TTTL, 1 semester of project work at TTTL, or candidate's own institution). Entry qualifications: (a) B. Engineering or equivalent, b) 3 years' teaching/administration in a technical institution. Short courses on demand for industries, conferences for principals, national research seminars, national conferences for directors of technical education, etc.

JAMAICA

COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY
237 Old Hope Road, Kingston 6, Cables: CAST Kingston

Enquiries to	Principal
General Information	The College, established 1958 as Jamaica Institute of Technology with 50 students has grown to a capacity of over 4000, all recruited at post-secondary level. It has departments of building, commerce, engineering, institutional management and food science, mineral, and technical education, and a computer centre. Owing to demand for places it can accept only a small number of non-nationals and these cannot necessarily be accommodated on campus.
Language of instruction	English
Residence	Limited
Administration	Board of Govenors
Course	3 year diploma courses for teachers in Business Education (Business Studies or Secretarial)- Home Economics ; and Industrial Technology (Construction, Electrical, or Mechanical). Entry qualifications: minimum of 4 'O' levels, including Maths and English, and (for Business Education) Accounts or Typewriting; (for Home Economics) Biology or Chemistry, (for Industrial Technology) Chemistry or Physics and a technical subject.

KENYA

KENYA TECHNICAL TEACHERS COLLEGE

P O Box 44600, Nairobi

Cables:TECHTEACH

Enquiries to

Principal

General Information

This major project, developed over several years, is largely based on recommendations of a Canadian team fielded 1971 to investigate ways of meeting shortages of technical and business teachers. Team recommended new and separate institution, CIDA agreed in principle to fund it and construction started in July 1976. Initial courses held at Kiambu Institute of Science and Technology until progress on campus allowed transfer to new site in January 1978. Government of Canada through CIDA has provided loans for about 80% of construction cost; has funded major scholarship programme at University of New Brunswick for Kenyan staff; and is continuing technical assistance including Canadian staff until 1983. 190 business teachers and 270 technical teachers were in training in March 1980.

Language of instruction

English

Residence

Male and female.

Administration

Board of Governors, under Ministry of Education. No fees charged for Kenyan citizens (except those on industrial training and village polytechnic programmes). Students sponsored by other governments and by CFTC have attended, including teachers from Botswana, Lesotho, Uganda, Zimbabwe.

Courses

The programme of courses covers teachers/instructors/lecturers in secondary education (business, industrial, and technical), in trade training, village polytechnics, industrial training and post-secondary technical and business education.

SECONDARY, BUSINESS: 3-year courses, (i) Accounting, (ii) Secretarial, leading to Diploma in Business Education; at least 2 principal A-level passes required (including maths for (i) and English for (ii); 2nd term in year 3 devoted to practice teaching in schools. 1-year courses, (iii) Accounting, (iv) Secretarial, also leading to Diploma in Business Education, and requiring (a) recognised certificate, diploma or degree

in accounting/secretarial area, (b) 2-years' related business experience, (c) entrance examination if prescribed.

SECONDARY, INDUSTRIAL: (v) 3-year course leading to Diploma in Education, requiring at least one 'A' level in mathematics or physics and above average 'O' levels in mathematics, science and English; applicants with secondary technical or industrial education preferred. 2nd term in year 3, teaching practice.

SECONDARY, TECHNICAL (also suitable for teachers in technical institutions): (vi) 1-year course leading to Teachers' Certificate in Technical Education; requires EACE Division II, with good credit passes in mathematics, science and English, plus CGLI Technician Certificate Part II, or equivalent, plus 2 years' approved work experience. (vii) 3½-year course leading to Teachers' Certificate in Technical Education and full craft Certificate Part III; requires EACE Division II with above average passes in mathematics, science and English; preference for applicants with good credit passes in Craft Certificate Part I, or equivalent.

INSTRUCTOR TRAINING, for instructors in industry, village polytechnics, trade centres, etc. A variety of courses meet varying needs for instructors. Three industrial instructor courses provide training in industrial techniques for people working or intending to work as technical/industrial instructors and are divided into C (basic), B (intermediate) and A (advanced) courses, 1 year of teaching being required between courses.

TRAINING OFFICERS' COURSE develops organisational and management skills required of a senior training officer or head of department.

VILLAGE POLYTECHNIC INSTRUCTOR short in-service courses vary in length and content.

For further details of all courses, entry requirements, conditions, facilities, etc., see prospectus, or write to the Principal.

LESOTHO

LEROTHOLI TECHNICAL INSTITUTE
P O Box 16, Maseru

Enquiries to	Director
General Information	The Institute has a long record of industrial and technical training at craft level, has developed teaching in some areas up to technician level, and now has a technical teacher training unit.
Language of instruction	English
Residence	Male and female.
Administration	Financed and managed directly by Government (Ministry of Education).
Course	2-year full-time course for technical teachers at secondary level, leading to Teachers' Certificate. Entry qualifications: technical qualification and experience. There are opportunities from time to time for up-grading of technical teachers through short courses run by visiting tutors from UK.

MALAWI

THE POLYTECHNIC, UNIVERSITY OF MALAWI
Private Bag 303, Chichiri, Blantyre 3

Enquiries to	Principal
General Information	Opened 1963 as a Government institution. In 1971, part became a college of the University, providing diploma courses in technical and business subjects, part continued to provide certificate courses and evening classes under its own board of governors. In March 1980 there were 29 students in training as technical teachers within the Department of Mathematics and Science.
Language of instruction	English
Residence	Male and female.
Administration	The Polytechnic is funded by Government and has received international and bilateral aid for particular activities. Individual students/trainees are sponsored by Government. The teachers' course has included trainees from other countries.
Course	3-year course for instructors and technical teachers leading to a Diploma of the University. Entry qualification: Malawi Certificate of Education or GCE. Teaching practice included in course.

MALAYSIA

TECHNICAL TEACHERS' TRAINING COLLEGE Jalan Cheras, Kuala Lumpur

Enquiries to	Principal or Vice-Principal
General Information	Founded 1962 with help of Canadian Government under Colombo Plan. Trade Teachers' Training College at Kuantan merged with College in 1970; commercial studies course transferred to College from Specialist Teachers' Training Institute in 1972. There are 600 students.
Language of instruction	National language (Bahasa Malaysia)
Residence	Partial, including female.
Administration	By Ministry of Education (Teacher Training Division). Financed by Government, with early assistance of Canadian Government in terms of facilities and personnel. Indonesian students attend with CIDA/Colombo Plan support.
Courses	(i) 3-year, in mechanical/electrical/motor/radio and TV/refrigeration and air-conditioning trades, leading to Teaching Certificate (to teach in vocational and technical schools). Entry qualifications: Malaysian Certificate of Education (Malay or English) or Vocational Certificate of Education. (ii) 2-year, industrial arts for teachers in general secondary schools leading to Teaching Certificate. Entry qualifications: as in (i). (iii) 2-year, commerce for teachers in general secondary schools, leading to Teaching Certificate. Entry qualifications: as above. (iv) 1-year, commerce (special), leading to Teaching Certificate to teach in upper secondary schools. Entry qualification: Polytechnic Certificate. College also runs in-service courses during vacations.

MAURITIUS

MAURITIUS INSTITUTE OF EDUCATION Reduit

Enquiries to	Director
General	The Institute is a secondary school teacher training institution, a centre for examinations at national level, and a curriculum development centre. Through its Department of Commerce and Technology, it trains teachers in these areas for secondary schools only.
Language of instruction	English
Residence	No
Administration	By a Council. Financed by Government.
Courses	(i) 1-year full-time course leading to Teachers' Certificate of the Institute. Entry qualifications: 'O' levels, plus school teaching experience. (ii) 3-year part-time course: (iii) 2-year full-time course - leading to Teachers' Diploma of the Institute. Entry qualifications: appropriate 'O' and 'A' levels, plus school teaching experience.

NEW ZEALAND

TUTOR TRAINING UNIT, TRENTHAM, for N.Z.
Technical Institutes, Private Bag,
Trentham Camp P O. Cables: TUTORUNIT Lower
Hutt

Enquiries to	Head of Unit
General Information	The Unit's in-service course of 3 x 4-week blocks, interspersed with teaching at tutor's own Institute, was established 1973 as pioneer project for NZ Technical Institutes. Owing to great interest since shown by other Government Departments, quasi-governmental and private industry, Unit can satisfy only a minority of potential clients.
Language of instruction	English
Residence	No. Tutors from outside Wellington stay at nearby motels.
Administration	By Central Institute of Technology Council and Department of Education, through an Advisory Committee. Financed by Government. Trainees are funded by Government, but a few have been sponsored by UNESCO and under Colombo Plan.
Courses	Tutor training course consists of 3 blocks each of 4 weeks, and includes visits to Technical Institutes, schools, universities, Teachers' College, and Police College. A certificate of satisfactory completion is awarded. Unit conducts seminars within TI's in areas such as evaluation, audio-visual aids, curriculum development

CHRISTCHURCH TEACHERS COLLEGE
(Secondary Division), Box 31056, Christchurch
AUCKLAND SECONDARY TEACHERS COLLEGE
(Technical Division), Private Bag, Symonds Street,
Auckland

Enquiries to	Principals; for special courses arranged under New Zealand Bilateral Aid Programme (see below), consult authority in candidate's own country responsible for technical assistance liaison with overseas governments and international organisations.
General Information	The Colleges have no quota or upper limit for overseas candidates and deal with each request on merits, in consultation with Ministry of Foreign Affairs. In addition, they arrange, in the light of demand, special courses of about 9 months' duration through which the New Zealand Government provides developing countries with opportunities for technical tutor training, mainly in woodworking and metalworking.
Language of instruction	English
Residence	Not at Christchurch; some at Auckland.
Administration	By Government through governing councils with considerable autonomy. Students/trainees are funded by Government, a few from other countries hold fellowships of bilateral or international aid agencies.
Courses	(i) 12-month, (ii) 3-year courses in metalwork or woodwork teaching, with technical drawing, workshop crafts and workshop technology, both leading to Diploma for teachers at manual training centres and intermediate and secondary schools. Both involve study at local technical institute as required. Entry qualifications: for (i), good secondary education plus approximately 10 years' trade experience; for (ii), university entrance minimum. The Colleges, in co-operation with the Department of Education, also run short courses and seminars.

NIGERIA

RAMAT POLYTECHNIC
PMB 1070, Maiduguri, Borno State
Cable: POLYTECH, MAIDUGURI

Enquiries to	Rector
General Information	The Polytechnic, formerly College of Technology, has (1981) 800 students in 9 departments, including mechanical, civil electrical and agricultural engineering and business and administrative studies, preparing mainly for Ordinary (2 year) and Higher (4 year) National Diplomas, also for certain City and Guilds Certificates.
Language of Instruction	English
Residence	Male and female
Administration	By Governing Council
Course	3 year Nigeria Certificate in Education (Technical) in woodwork metalwork and electrical/electronic engineering. Entry qualifications, West African School Certificate with 2 credits in subjects to be studied, or GCE, in Intermediate City and Guilds Certificate at credit level, or Teachers Certificate Grade II with merits. Introductory Nigeria Certificate in Education (Technology) courses are open to candidates with lesser qualifications.

COLLEGE OF TECHNOLOGY CALABAR
PMB 1110, Calabar, Cross River State
Cable: CALABATECH

Enquiries to	Registrar
General Information	The College has (1981) 870 students, in Schools of Applied Sciences, Business and Management, Communication Arts, Education, Engineering, and Environmental Studies, mainly providing 2-year National Diploma programmes. Students who obtain National Diploma at credit level and have some practical experience may go on to Higher National Diploma, available in most areas.
Language of Instruction	English
Administration	By Governing Council
Residence	Partial, 3 new hostels under construction (1981)
Course	3 year Nigeria Certificate in Education (Business or Technical). Entry qualifications: West Africa School Certificate with 4 credits in relevant subjects and pass in English, or equivalent GCE. For NCE (Business), RSA Stage II Certificate in 5 subjects and Teachers Certificate Grade II with 4 relevant merits are alternatives; and for NCE (Tech), appropriate City and Guilds Certificate. 1 year National Technical Teachers Certificate for prospective teachers who have acquired relevant theoretical knowledge in technical or commercial fields and have degrees/Higher National Diplomas/Higher Technical or Secretarial qualification.

INSTITUTE OF MANAGEMENT AND TECHNOLOGY
PMB 1079, Enugu
Cable: MANTECH ENUGU

Enquiries to	Rector
General Information	The Institute has 6 schools - Engineering, Business Studies, General Studies, Technology Technical Teacher Education, and Continuing Education. All except the last two offer mainly 2 years courses leading to National Diploma, and a further 2 years leading to Higher National Diploma.
Language of Instruction	English
Residence	Partial (for 1000, male and female)
Administration	By Board of Governors responsible to Anambria State Government.
Course	3 year Nigeria Certificate in Education (Technical). Entry qualification, West African School Certificate with 4 credits or GCE 'O' levels in relevant subjects.

NIGERIA

KADUNA POLYTECHNIC
(COLLEGE OF SCIENCE AND TECHNOLOGY)
PMB 2021, Kaduna Cables: TECHPOLY, KADUNA

Enquiries to Director, College of Science and Technology

General The College is one of 3 constituent Colleges forming
Information the Kaduna Polytechnic which came into being in 1968.
The Polytechnic is headed by a Rector, and at the end
of 1979 had about 8000 students, of whom 369 were in
training as technical teachers in the Department of
Education Technical.

Language of English
instruction

Residence Partial (male and female).

Administration Autonomous institution governed by Board of Governors
on behalf of the 10 Northern States of Nigeria and
financed by those States. Trainees are usually
sponsored by their State governments, but others can
be admitted.

Courses (i) 3-year NCE (Technical) in technical crafts, science
and general/liberal subjects for technician teachers,
leading to Certificate and Diploma, awarded by
University. GCE, West African School Certificate, or
Teachers' Certificate grade II required. Industrial
attachments by arrangement.
(ii) 1-year National Teachers' Certificate, leading to
NCE/NTC Certificate awarded by Polytechnic. HND or
FTC required.

NATIONAL TECHNICAL TEACHERS' COLLEGE
P O Box 269, Yaba, Lagos Cable: TECHTEACH

Enquiries to Principal

General Established 1967 by Federal Ministry of Education with
Information help of UNESCO as the specialist Federal Centre for
the training of technical teachers, there are at
present 424 students/trainees.

Language of instruction	English
Residence	Male and female.
Administration	Federal Ministry of Education. College and trainees financed by Government.
Courses	(i) 3-year courses, (a) technical (mechanical engineering, electrical/electronics engineering), (b) commercial (accounts, secretarial studies), both leading to Nigerian Certificate in Education and for teachers in forms I - III of secondary schools. 10 weeks' teaching practice and 5 months' industrial/commercial attachments included. Entry qualification: West African School Certificate. (ii) 1-year courses, (a) technical, (b) commercial, leading to Technical Teachers' Certificate, for instructors in colleges/trade centres, including 10 weeks' teaching practice. Entry qualifications: for (a) City & Guilds Full Technological Certificate, plus 2 years' industrial experience; for (b) HND, 120/ 50 wpm, ACIS, etc., plus 2 years' commercial experience. (iii) 2-year Nurse Tutors' course.

PAPUA NEW GUINEA

GOROKA TEACHERS COLLEGE
P O Box 1078, Goroka

Cable: TEACHERCOL

Enquiries to Principal

General Information At present part of University of Papua New Guinea. Government Education Department is planning a separate technical teacher/instructor centre to provide a 12-months' modular course for several categories of teacher/instructor. 30 students/trainees are in training as technical teachers.

Language of instruction English

Residence Male and female.

Administration By the University (for which the Minister for Higher Education is responsible) through a Council; financed by Government. PNG trainees receive national scholarships/stipends; some from Solomons have attended; trainees from other countries could be considered at the projected centre.

Course 12-months' pre-service in post-primary technical teacher training leading to Diploma in Technical Teaching, for technical and secretarial teachers and lecturers. Good education (in PNG, year 10 pass), plus trade or secretarial certificate, plus 3 years in industry/commerce.

ST LUCIA

TECHNICAL TEACHER TRAINING COLLEGE
Morne Fortune, P O Box 618, Castries

Enquiries to	Principal
General Information	Established in October 1971 as regional institution, under St Lucia Ministry of Education and Health, to serve East Caribbean. Initial course (for industrial arts teachers in schools) was attended by 10 students and subsequent enrolments rose to about 40 in 1977. By that date, 7 students had come from Anguilla, 34 from Antigua, 13 from Dominica, 25 from Grenada, 5 from Montserrat, 21 from St Kitts/Nevis, 40 from St Lucia, 16 from St Vincent, 1 from British Virgin Islands and 1 from Turks and Caicos Islands.
Language of instruction	English
Residence	Male and female.
Administration	By St Lucia Ministry of Education and Health. Financed by St Lucia Government, with assistance from UK Government, ODA/TETOC, (capital, staff and bursaries); CIDA (bursaries); and CFTC (bursaries for participants in seminars and short courses, e.g. on "Course Development and Assessment", August 1976).
Courses	Courses, as above, are of 1 years duration, except industrial attachments (up to 6 months).

ST VINCENT

TECHNICAL CENTRE
Richmond Hill, Kingstown

Enquiries to	Instructor-in-Charge
General Information	Developed out of technical wing of Grammar School, set up in early 1960's as joint venture between USAID and former West Indies Federation.
Language of instruction	English
Administration	Managed and financed (with some CIDA assistance) by Government. 42 local students are at present (1980) being trained as industrial arts teachers. Attendance of trainees from other countries could be negotiated with governments.
Course	1-year, with main subjects woodwork, drafting, metalwork/machine-shop, for teachers in secondary and primary schools in Kingstown area.

SIERRA LEONE

MILTON MARGAI TEACHERS COLLEGE
Private Mail Bag, Goderich, Freetown

Enquiries to	Principal
General Information	Sierra Leone's main institution for training non-graduate teachers, situated 9 miles south of Freetown. Founded (at Tower Hill Barracks) 1960, when Government decided to remove Teacher Training Department from Fourah Bay College; re-opened 1963 in presence of first Prime Minister of Sierra Leone, Sir Milton Margai, and renamed in his honour. Buildings include 5 halls of residence (4 male, 1 female), library, and teaching block with centres for home economics and art and crafts, three laboratories, specialist rooms for music, audio-visual aids, and geography, and a language laboratory of 20 booths. College offers courses for secondary school technical and commerce teachers, plus special subjects such as art and music for primary schools. Has Technical and Business Studies Department.
Language of instruction	English
Residence	Partial (male and female).
Administration	By Ministry of Education, through governing council. Financed by Government. Has some non-national students holding fellowships from international agencies.
Course	3-year course for technical/commerce teachers in secondary schools, leading to Higher Teachers' Certificate of University of Sierra Leone, Institute of Education. GCE 'O' levels in 4 relevant subjects required.

SINGAPORE (REGIONAL)

COLOMBO PLAN STAFF COLLEGE FOR TECHNICIAN EDUCATION
Paterson Road, P O Box 187
Tanglin PO, Singapore 9174 Cables: SCOLTEC SINGAPORE

Enquiries to	Director
General Information	Concerned with the development of staff teaching at technician level. Established 1974 as joint and co-operative enterprise of 27 member countries of Colombo Plan; operational March 1975. Fully autonomous regional institution with immunities and privileges granted by Government of Singapore. Each course has up to 25 participants nominated by member countries.
Language of instruction	English
Residence	At RELC International Hostel, Singapore (male and female).
Administration	Administered under Colombo Plan, by a Governing Body that includes representatives of all participating governments and (ex officio) the College Director and the Director of the Colombo Plan Bureau. Derives funds for basic operating costs from those governments. Participating countries and CFTC have also provided the following aid: (i) initial building renovation and funding: Singapore; (ii) equipment, books, vehicles: Australia, Canada, India, Japan, New Zealand, UK, USA; (iii) fellowships for visiting specialists and course members: Australia, Canada, Japan, New Zealand, UK, USA, CFTC. College provides return air fares between participants' countries and Singapore and per diem allowance for lodging, board, and incidental expenses, this expenditure being met from fellowship contributions.
Courses	College runs in-country courses as well as College-based courses. These are normally of 10-14 days' duration and in 1979/80 have included courses in Sri Lanka (staff development), Papua New Guinea

(training resource persons for technician staff development programme), India (industry-institute co-operation), Bangladesh (measurement and evaluation in polytechnics, including student selection), and Malaysia (staff development, emphasis on instructional design and delivery).

SWAZILAND

SWAZILAND COLLEGE OF TECHNOLOGY
P O Box 69, Mbabane

Enquiries to	Principal
General Information	Former Swaziland Industrial Training Institute was reconstituted as SCOT in 1969 and greatly expanded with international assistance, courses at technician level forming more than half its work. Carries out technical teacher training responsibilities through Teacher Training Unit.
Language of instruction	English
Residence	Male and female
Administration	By Deputy Prime Minister's Office. Financed by Government. Students and trainees funded by Government bursaries. Students from other countries sponsored by aid agencies (e.g. CFTC) have attended College but not (so far) teacher training; this could be considered if places available.
Course	1-year secondary technical teachers', leading on to Technical Teaching Certificate of the University. Minimum entry qualification: 3rd class pass in Cambridge School Certificate with 2 credits, preference given to technical subjects. There are plans for in-service teachers' workshops.

TANZANIA

DAR ES SALAAM COLLEGE OF NATIONAL EDUCATION
SLP 2329, Dar es Salaam
DAR ES SALAAM TECHNICAL COLLEGE
Morogoro Road, SLP 2958, Dar es Salaam

Enquiries to	Either Principal
General Information	The College of National Education carries out its teacher education function in technical education through the Department of Technical Teacher Training at the Technical College. Both are financed and run by the Ministry of National Education, and individual trainees are funded by Government. About 150 are in training as technical teachers.
Languages of instruction	English and Kiswahili
Residence	Male and female
Courses	Besides Certificate courses for general subjects teachers and Nursing Diploma course for teacher nurses, there are: (i) Commerce/Science/Arts teachers', leading to Diploma in Education; (ii) Part-time technical teachers', leading to Diploma in Education. Entry qualifications: Form VI national examination. Industrial attachment included.

TRINIDAD

JOHN S DONALDSON TECHNICAL INSTITUTE
Wrightson Road, Port-of-Spain

Enquiries to	Head of Technical Teacher Training Department.
General Information	The Technical Teacher Training Department operates as a specialist division within the Institute. It is staffed by a Head of Department and four full-time staff. Additional part-time staff are appointed as required. In-service courses are provided for secondary school teachers holding National Craft Diploma or Technician National Diploma. Total student enrolment: 250.
Language of instruction	English
Residence	No
Administration	Ministry of Education. Financed by Government; capital expenditure was assisted by loan from World Bank.
Course	2-year in-service course for teachers in secondary schools, leading to Diploma. Entry qualifications: (a) National Craft Diploma, plus at least 3 years' experience; (b) National Technician Diploma.

UGANDA

NATIONAL TEACHERS' COLLEGE, KYAMBOGO
P O Kyambogo, Kampala

Enquiries to	Director
General Information	Training of technical teachers is at present confined to teachers of metalwork, woodwork and technical drawing, and conducted in Technical Subjects Section, Department of Design. A general technical education course is planned, to include electricity, electronics, industrial and manufacturing processes, power and energy. 30 students taking present course out of total student body of 500.
Language of instruction	English
Residence	Male and female
Administration	Board of Governors, under Ministry of Education. Financed by Government with some assistance from UNESCO. Students all Uganda Government sponsored so far, but sponsored students from other countries could be considered.
Course	2-year secondary technical teachers', in metalwork, woodwork and technical drawing, leading to Diploma in Education. Entry qualification: advanced level certificate of education and practical experience. Teaching practice in schools included.

UNITED KINGDOM

Most of the full-time provision of technical teacher training in England and Wales is centred on four specialist institutions - Bolton College of Education (Technical), Garnett College of Education (Technical), Huddersfield Polytechnic, and Wolverhampton Polytechnic; and in Scotland, on Jordanhill College of Education. Other colleges of education include technical, vocational and handicraft subjects in their programmes for secondary teachers but are not listed here, for two connected reasons: most Commonwealth countries can arrange such training in neighbouring Commonwealth countries if not in their own as the directory shows; and only the five UK colleges named and described make special provision for overseas students and trainees and are included on that account.

Other higher education institutions also provide opportunities for the development of staff of technical institutions. Much of their work in this area is either not full-time, not residential, not specially relevant to needs of developing countries, or not substantial enough to warrant a special visit to the UK. But some of it takes the form of "training packages" specially arranged to suit needs of teachers from other countries, and several sponsoring authorities have found this the best way of meeting staff development needs - whether of groups or individuals - that they have identified. Such packages are sometimes arranged between colleges in the UK and institutions overseas that have entered into some form of special linking relationship. The packages are normally college-based and can include a short course of subject improvement or up-dating in college; a study tour; practical training or experience in industry; work on curricula; and other pedagogical elements. Sponsors should enquire through the appropriate British agency about the availability of such opportunities, which are often mounted in response to special requests and are too varied in nature to be covered in this directory.

Another category of training not fully covered is the training of instructors and training officers for industry and for industrial and trade training institutes, centres, etc. The variety in scope and form of such training and the authorities who conduct it are particularly wide in Britain: it is geared mainly to the needs of highly developed industry; and authorities in developing countries may wish, where possible, to arrange instructor training in the social and industrial environment of their own or comparable countries. However, there are notable exceptions.

Like the opportunities for staff development in technical education, some good opportunities in industrial training take the form of packages tailored to the needs of groups or individuals, containing in the right proportions the elements appropriate to their background, e.g. up-grading of skills, industrial experience, visits to industry, or the techniques of instruction.

The main British official agencies for industrial training are the Training Services Division (TSD) of the Manpower Services Commission and the Industrial Training Boards. The TSD provides students who have the necessary personal qualities and practical experience with tuition in instructional and communication skills at an Instructor Training College (the best known to overseas trainers is at Letchworth). This is followed by the opportunity to gain practical instructional experience. Specially selected instructors can be further trained to become tutors on national courses for potential instructors. Some of the Industrial Training Boards (ITB's) have their own training centres: for example the Construction ITB at Bircham Newton (Norfolk), the Engineering ITB at Webton Court (Leeds), and the Road Transport ITB at High Ercall (Worcestershire) and in Scotland. These centres cover the complete range, from instructors to training officers and managers.

There are also certain polytechnics and colleges, for example Huddersfield, (described below in connection with the training of technical teachers), Slough College of Technology and certain management training centres which specialise in the training of trainers at technical and management training levels. Certain organisations concerned with industry provide consultancy and other services including the running of courses in this area; e.g. British Association for Commercial and Industrial Education (BACIE, 16 Park Crescent, London W1), Industrial Society (Robert Hyde House, 48 Bryanston Square, London W1), Institute of Personnel Management (Central House, Upper Woburn Place, London WC1), and Industrial Training Service (73/75 Mortimer Street, London W1).

Finally, most of the nationalised industries train instructors; some can meet requests for the training of groups from overseas; and some can also provide a range of consultancy and other services for overseas users. These include the British Electricity International, a subsidiary of the Electricity Council, which provides consultancy and training services for and in many parts of the world in all aspects of electricity supply; the National Water Council has a scheme of education and training for the UK water

industry and offers on behalf of the industry a training service for overseas countries; and the National Coal Board which accepts overseas trainees at its Newcastle-upon-Tyne centre for instructor and supervisory training. Information about the training services of these and other nationalised industries offering training expertise in all forms of transport and energy, can be obtained through British Nationalised Industries Overseas Services, 14/15 Lower Grosvenor Place, London SW1.

BOLTON COLLEGE OF EDUCATION (TECHNICAL)
Chadwick Street, Bolton BL2 1JW

Enquiries to	Registrar or Head of Overseas Unit
General Information	Established 1946 as first training college to specialise in education of technical teachers. Affiliated to University of Manchester, which determines entry standards and syllabuses and controls examinations. Has teaching accommodation for 500 students; Study Conference Centre; Resource Centre equipped for closed circuit TV, teaching machines, maths and computer studies, languages and audio-visual aids. The College's three Faculties work closely with an Overseas Unit in providing courses and advice to British Council, TETOC, international organisations, etc., on matters affecting overseas students and operations overseas.
Residence	Not fully residential. Four halls of residence accommodate about 100 men and 50 women; students from overseas usually live in single study bedrooms in the halls, where there are also common rooms, TV rooms, reference library and games room.
Administration	Through Governing Body, under Local Education Authority. Financed by local and central government. Many overseas students funded by scholarships/bursaries from overseas governments, ODA, and international agencies.

Courses

- (i) 1-year course for overseas teachers of technical vocational and professional subjects, leading to Certificate for Teaching Technical Subjects Overseas of University of Manchester. Entry qualifications: (a) degree of approved university, HNC, Technician's Certificate, Advanced Craft Certificate of CGLI, or equivalent qualification; (b) proficiency in spoken and written English; (c) appropriate experience in industry, commerce or profession, and/or teaching.
- (ii) 1-year course leading to Diploma in Advanced Study in Technical Education (Manchester). Enables senior higher technical education staff to study Education and develop investigational and research techniques. Entry qualifications: (a) degree of approved university or equivalent, or (b) successfully completed professional training course in college of education.
- (iii) 10-week (minimum) course, Administration of Technical Colleges, including 3-week (minimum) attachment(s) to technical/vocational institution(s) for persons with recognised experience as e.g. Principal, Head of Department, Senior Training Officer, Administrator. College certifies course undertaken.
- (iv) 10-week course, Administration of Technical Education, suitable for Principals, Heads of Department, Senior Training Officers, Administrators. College certifies course undertaken.
- (v) M. Ed. (Manchester) course in Further and Technical Education (Curriculum Studies).

GARNETT COLLEGE

(College of Education for Teachers in Further Education)
Downshire House, Roehampton Lane,
London SW15 4HR

Enquiries to

Principal

General Information

Opened 1946 at North Western Polytechnic (North London) under Ministry of Education Emergency Training Scheme for Teachers. Became spearate college 1950. Renamed 1953 to commemorate Dr William Garnett, first secretary of London Technical Education Board. Moved to Roehampton in 1963; now occupies 3 sites within a few minutes' walk of each other, based on 3 18th-century mansions. Downshire House site contains 2 teaching blocks with classrooms, laboratory, workshops, other specialist rooms, a library and resources centre. Manresa House site has teaching accommodation, including laboratories, a drama room, gymnasium and

sports facilities. Mount Clare site includes residence for 180 of the 900 students, dining rooms, common rooms, and residential staff quarters.

Residence	In single study bedrooms (male and female).
Administration	Financed and run by Inner London Education Authority through Board of Governors. Constituent member of University of London Institute of Education.
Courses	(i) 1-year course leading to Certificate in Education, University of London; entry qualification: degree or highest available technician or craft qualification. (ii) 1-year course leading to Diploma in Further Education, University of London; entry qualification: Certificate in Education, or equivalent. (iii) 1-year course leading to Associateship of University of London; entry qualifications: qualified to teach in own country plus responsible teaching experience. The College also runs part-time courses (e.g. B. Ed., degree, Diploma in Educational Management for Further Education, Diploma in English Language Studies in Further Education) and short and ad hoc courses and seminars, details available from College.
 THE POLYTECHNIC, HUDDERSFIELD Queensgate, Huddersfield HD1 3DH	
Enquiries to	Centre for Overseas Education, Holly Bank Road, Huddersfield, HD3 3BP
General Information	Designated as a Polytechnic in 1970. Its Faculty of Education, one of five, was developed mainly from the former Huddersfield College of Education (Technical) which made special provision for developing countries through an administrative link with ODA/TETOC. In 1966 the College was the venue for a Commonwealth Specialist Conference on the Education and Training of Technicians, whose report was later up-dated and expanded by the then College Principal, the late Alexander MacLennan and published under the title "Educating and Training Technicians" (Commonwealth Secretariat, 1975).

Residence	Partial (male and female).
Administration	Through Governing Body (assisted by Academic Board), under Kirklees Metropolitan District Council. Financed by local and central government. Many overseas students funded by scholarships/bursaries from overseas governments, ODA, and international agencies.
Courses	(i) 9-month course leading to Certificate in Education (University of Leeds) for craft and technician teachers. Entry qualifications: degree, HND, HNC, or other recognised technical/commercial qualifications. (ii) 9-month course leading to Diploma in Further Education (University of Leeds) for craft and technician teachers. Entry qualifications: as (i) above, plus initial teacher training. Industrial attachments can be arranged. Polytechnic also offers training officer courses and short courses of 12 weeks in curriculum studies, management of education, educational technology and curriculum innovation; can offer specially arranged courses and prepare students for M. Phil. (Leeds) research degree.

THE POLYTECHNIC, WOLVERHAMPTON
Faculty of Education
Castle View, Dudley, West Midlands

Enquiries to	Dean
General Information	Faculty formed 1977 from merger of Dudley College of Education, Wolverhampton Technical Teachers' College, and Wolverhampton Teachers' College for Day Students. Brings together local facilities for teacher training (initial and in-service) in primary, secondary and further education areas. Based within Faculty is an Overseas Unit responsible for (1) liaison work for overseas students throughout the Faculty; (2) conducting short courses (12 weeks) leading to Overseas Technical Teachers' Award (Natural Resources); (3) organising "tailor-made" courses and attachments for individuals and small groups of overseas students; (4) conducting educational seminars in overseas countries.
Residence	Male and female.

Administration Maintained and financed by the Local Education Authority, through a governing council. Most trainees supported by LEA grants, some by overseas bursaries, others self-supporting.

Courses (i) Course of initial teacher education in all vocational areas leading to B. Ed. (Further Education). Entry qualifications: HND or equivalent, plus 4 years' vocational experience. Includes supervised student experience in colleges.
(ii) 1-year full-time course for teachers in secondary schools and technical education leading to Post-Graduate Certificate in Education. Entry qualifications: degree of UK university or CNAA or recognised equivalent. Supervised teaching experience, 13 weeks in schools or colleges.
(iii) 1-year full-time course of initial teacher training leading to Certificate in Education (Further Education). Entry qualifications: age 24 years (younger graduates may be admitted), Degree, Diploma or Certificate in wide range of professional/technical/vocational subjects, evidence of competence in numeracy and literacy; personal qualities and general education attainments taken into account. Two blocks of supervised teaching experience.
(iv) Course for teachers and trainees in natural resources subjects leading to Overseas Technical Teachers' Award. Entry qualifications: employment as teacher, trainer or administrative officer in own country. 3-week attachment to colleges of agriculture/horticulture.

JORDANHILL COLLEGE OF EDUCATION
Southbrae Drive, Glasgow G13 1PP

Enquiries to Assistant Principal

General Information College had origins in work of David Stow, early 19th-century Glasgow merchant and a pioneer of teacher training in Scotland and in the world. His Glasgow Normal School was probably the first training college for teachers when opened in 1837. In 1959 its successor was renamed Jordanhill College of Education, reorganised and began large-scale expansion and building programme. Student numbers rose from 1960 in 1959 to over 3000 and included new groups such as social workers, youth

centres, speech therapists, as well as primary and secondary (including technical) teachers. College embraces two national institutions, Scottish School of Physical Education (male) and School of Further Education, sole training agency for Further Education teachers in Scotland.

Residence

Male and female.

Administration

By autonomous Board of Governors, including representatives of education authorities, serving teachers in schools and colleges, universities, religious interests, and College staff and students. Financed directly by Scottish Education Department.

Courses

(i) 1-year course for secondary teachers of technical subjects, home economics, arts and crafts and business studies, leading to Certificate.
(ii) 4-year course (or shorter, according to educational and technical qualifications, industrial and teaching experience) leading to Certificate and Diploma in Technical Education.
(iii) 62-week course for further education lecturers leading to Teaching Qualification (Further Education) and consisting of (a) initial 10-weeks' full-time study at Jordanhill, (b) 2-terms of supervised teaching practice at a college of Further Education, and (c) second 10-weeks' full-time study at Jordanhill.
Entry Qualifications: specialist qualification in own teaching field, degree or equivalent, or Ordinary grade passes in Scottish Certificate of Education in English and Mathematics, or equivalent. Special courses are organised ad hoc to meet students' needs specified by sponsoring governments, e.g., 1-year English language and geography methods for Singaporean teachers, 2-year courses in marketing and technical education for Zambian teachers.

ZAMBIA

NKRUMAH TEACHERS COLLEGE
Box 404, Kabwe

Enquiries to Principal

Language of
instruction English

Residence Male and female.

Administration Ministry of Education. Academic affiliation to University of Zambia. Financed by Government. Government bursaries available to Zambians; trainees accepted from other countries under sponsorship, e.g. Zimbabweans under Special Commonwealth Programme for Zimbabweans.

Course 2-year secondary teachers', in subjects which include Industrial Arts and Commerce, leading to Diploma of University of Zambia. Entry qualifications: Cambridge School Certificate or GCE 'O' levels. Teaching practice included. College acts as a resource centre and conducts seminars and workshops in addition to Diploma course.

TECHNICAL AND VOCATIONAL TEACHERS COLLEGE
P O Box 199, Luanshya

Enquiries to Principal

General
information Established 1974 as co-operative project between Zambian and Swedish Governments. Has 250 students in training as technical teachers.

Language of
instruction English

Residence	Male and female.
Administration	Department of Technical Education and Vocational Training (Ministry of Education). Academic affiliation to University of Zambia. Financed by Government with assistance of Swedish International Development Agency. Students funded mainly by Government, a few by parastatal organisations and mining companies. Attendance of students from other countries within the region could be considered; a few sponsored by aid agencies, mainly refugees from Southern African countries, have already attended.
Courses	(i) 2-year commercial teachers', (ii) 2-year industrial arts teachers': both leading to Diploma for teachers in secondary schools. Normal entry qualification: Division III Cambridge School Certificate, 6 weeks' commercial/industrial, practice included. (iii) 10-month technical teachers', leading to Diploma for (a) lecturers in technical colleges, (b) teachers in technical institutes. Normal entry qualifications: (a) Advanced Technician Certificate or Diploma, (b) Form V Craft Certificate, plus (for both) 2 years' industrial experience.