

## Admission Requirements for Associate Member in Biomedical Discipline

Candidates applying the class of Associate Member in Biomedical Discipline of the HKIE are required to satisfy the following:

### 1. Academic Requirements

Academic qualifications that meet the requirements of the Institution for the class of Associate Member are:-

- (i) a Higher Diploma accredited/recognised by the Institution relevant to the Discipline; or
- (ii) a Higher Certificate accredited/recognised by the Institution relevant to the Discipline; or
- (iii) an accredited Higher Diploma or Higher Certificate as listed in an international agreement relevant to the Discipline; or
- (iv) an engineering degree or above accredited/recognised by the HKIE or equivalent in a relevant discipline; or
- (v) Other acceptable qualifications, such as Associate Member of the HKIE in relevant disciplines.

Other technologist level qualifications in engineering or technology may be considered for the class of Associate Member based on an individual assessment.

### 2. Training/Experience Requirement

#### 2.1 Scope of Experience

Biomedical Engineering is a discipline that advances knowledge in engineering, life science and medicine, and improves human health through cross-disciplinary activities that integrate the engineering sciences with the biomedical sciences and clinical practice.

The realm of experience in Biomedical Engineering encompasses a huge variety of knowledge and practical skills which includes, inter alia:

**Bioengineering** – focuses on the underpinning knowledge base, for example, the study of the behavior of neurons and connective tissues with the aid of mathematical models and simulation;

**Medical engineering** – focuses on the study, design and construction of instrumentation, prosthesis, and implants for the medical field;

**Clinical (or hospital) engineering** – focuses on certification and quality assurance of medical equipment; and hospital engineering activities, such as design and project management of hospital installations, and consulting for the acquisition of medical equipment;

**Rehabilitation engineering** – focuses on the development of systems for improving the quality of life of people with disability.

It is not reasonable to expect an applicant to be fully conversant in the entire scope of experience, one must however have broad based experience and responsibility in one or more fields at the level of Associate Member, as well as a good understanding of other related aspects.

## **2.2 Routes of Gaining Experience**

### **(i) Formal Training Route**

2 years' training in Biomedical Engineering

### **(ii) General Experience Routes**

- a. For candidates satisfying the above academic requirements of Sections 1(i), 1(iii) with Higher Diploma, and 1(v):

A minimum period of three years training and experience is required with a maximum exemption of one year pre-qualification experience.

- b. For candidates satisfying the above academic requirements of Sections 1(ii) and 1(iii) with Higher Certificate:

A minimum period of four years training and experience is required with a maximum exemption of two years pre-qualification experience for applicants who have completed apprentice training or one year exemption for applicants in cases of other pre-qualification training.

### **(iii) Special Route**

- a. For candidates satisfying the above academic requirements of Sections 1(iv) with engineering degree or above:

A minimum period of three years of engineering experience or completion of Scheme "A" Training to Corporate Membership.

Details of the training and experience requirements are included in Section 3 and 4 of "M4 - Routes to Associate Membership".

Candidates who satisfy the above requirements will be accepted for a Paper Assessment.

## **3. Paper Assessment**

All candidates are expected to deliver the following documentation together with their applications:

### **3.1 Report on Training and Experience**

Details are included in Section 6 of "M4 – Routes to Associate Membership".

### **3.2 Samples of Recent Works**

All candidates are required to submit relevant samples of recent work.

### **3.3 Continuing Professional Development (CPD) Record**

Details are included in Section 6 and 8 of "M4 – Routes to Associate Membership".

All documents should be the candidate's own work and documents must be "verified" by his employer/principal who should preferably be a Corporate/Associate Member of the Institution.

All documents submitted will be treated as confidential and will be returned to the candidate after assessment. Candidates should however retain copies of all documents submitted as the Institution does not accept responsibility for any documents lost or damaged.

Applications will be assessed based on the submission to ensure that the candidates have satisfied the HKIE Competence Standard for Associate Membership in accordance with "M4 - Routes to Associate Membership".