



**Institute of
mathematics**
& its applications

**5th Employers' Forum
Mathematics in the Industrial Workplace**

**Motivating and Rewarding
Chartership
An IMA Perspective**

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www.ima.org.uk



A professional is a good, solid, reliable, qualified, experienced practitioner

A professional is has a range of skills, competencies and qualifications that meet or exceed a threshold

Charters are also benchmarked against each other:

A CMath has equivalent skills and qualifications to a CEng

Many professionals exceed the threshold by a considerable margin

But all do meet or exceed it

Professional registration is a benchmark which is widely recognised



Chartered status is awarded by peers in the profession

It demonstrates the achievement of a level of competence, professionalism, responsibility, proven knowledge and understanding in the chosen discipline.

The use of post-nominals demonstrates this to others...including other employers!

The path to registration may form part of career progression



- Chartered Mathematician CMath
- Chartered Mathematics Teacher CMathTeach
- Chartered Scientist CSci



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The Work of the IMA

Education

Research

Publications

Conferences

Industrial / Commercial

Employers' Forum



Mathematics is studied throughout school life
But not necessarily appreciated!

The IMA:

- Runs the mathscareers website to provide information and context
(sponsored by EDF Energy and the Bank of England)
- Maintains two committees to promote mathematics education

Schools and Further Education

Higher Education

Honorary Secretary for Education sits on Council

- Employs a full time Education Officer

www.IMA.org.uk

The IMA:

Operates to the Maths Teacher Training Scholarship scheme (£25,000 tax free support)

Education Officer attends UCAS careers fairs

Attends the Big Bang Science and Engineering Fair

Produces the e16+ newsletter for KS5 students

Offers Education Grants

www.IMA.org.uk



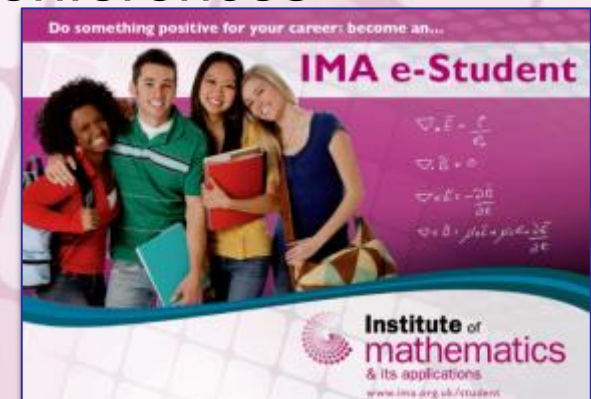
The IMA:

Has developed the University Liaison Officer post

- 35 university visits/ year (more with ambassadors!)
- Supports University careers advice staff
- Supports student events and conferences
- Provides up to 20 ULO grants/year to Mathsocs (£400)
- Coordinates the free eStudents (now at 6,000)
- Produces the eStudent newsletter

Runs the Early Career Mathematicians Conferences

www.ima.org.uk





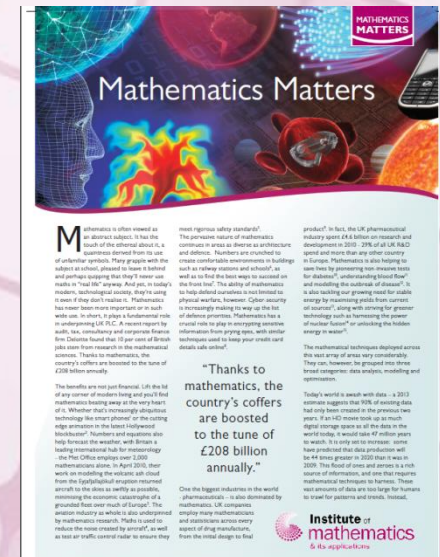
The IMA:

Has developed the Postgraduate Liaison Officer post to extend interaction to postgraduate students

- Developing postgraduate topic groups
- Virtual groups with common research interests
- Groups in Maths Biology and Inverse Problems and Imaging have been established.
- Activities coordinated by Moodle platform
Blogs, webinars, meetings...

www.IMA.org.uk

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The IMA co-publishes seven journals with Oxford University Press:

- Applied Mathematics
- Numerical Analysis
- Mathematics Applied in Medicine and Biology
- Mathematical Control and Information
- Management Mathematics
- Teaching Mathematics and its Applications
- Information and Inference

Members are entitled to highly reduced rates on subscriptions for Journals.



The Institute holds on average ten conferences per year that cover a diverse range of topics, and attract those at the forefront of new developments in specific areas of mathematics. Examples include:

- Numerical Linear Algebra and Optimisation
- Big Data
- Early Career Mathematicians
- Mathematics in Defence
- Cryptography and Coding
- Mathematics of Surfaces
- Mathematics in Finance

As a member you could receive up to 35% reduction on conference fees.





Industrial/ commercial includes an extraordinary diversity of careers involving mathematics in sectors from defence to retail

The IMA:

- Has a permanent Professional Affairs Committee

- Can offer a template Graduate Training Scheme or accredit existing schemes

- Encourages continuing professional development

- Recognises professional advancement with registration

- CMath, CSci, CMathTeach

- Runs the Corporate Affiliate Scheme

The IMA Corporate Affiliate Scheme

IMA Corporate Affiliates are public and private sector organisations that wish to demonstrate their commitment to mathematics. Some of the benefits the IMA offers Corporate Affiliates are:

- A graduate training scheme to those organisations that require it, or will accredit an existing scheme
- A CPD framework for Chartered employees
- Publicity via *Mathematics Today*, our websites and social networking groups
- Sponsorship Opportunities for Conferences, Events and Employers' Forum
- Use of the IMA Logo





Following a review of Corporate Affiliates the IMA introduced the Employers' Forum

Discuss mathematics in the commercial sector

Consider the recruitment, development and retention of mathematicians

Events to date:

Employability of Mathematics Graduates - EDF Energy

Academic Technical Outreach – AWE

Career Pathways – GCHQ

Mathematics in the Industrial Workplace – Rolls-Royce

Motivating and Rewarding Chartership - Dstl

Sincere thanks to the hosts!

www.IMA.org.uk

Join the Institute

The benefits of membership include:

- Bimonthly copy of *Mathematics Today*
- Local IMA branch meetings
- Enhanced career and promotion opportunities
- Access to the IPD & CPD schemes
- Increased networking opportunities at IMA events
- Discounts for IMA Conferences and Published Journals

