

Institute Membership

- Chartered Scientist

Please note that applicants must already be Members or Fellows of the Institute of Physics. Applications for Member or Fellowship can be made at the same time as applications for registration as a Chartered Scientist. In addition, applicants can apply for more than one Chartered status at a time. If you would like information on Chartered Engineer or Chartered Physicist go to <http://members.iop.org/join> or contact the Membership Department.

Should further advice or information be required, please contact the Professional Standards Office. Contact details can be found at the end of this document.

Members who have allowed their membership to lapse for 2 years or more will be asked to re-apply for any previously held chartered status. There will be no exceptions to this rule.

Chartered Scientist (CSci)

Introduction

Science, and the exploitation of the fruits of scientific research and development, underpins the wealth generated through engineering, technology and commerce. The importance of developing the skills of scientists and of ensuring that they remain up-to-date is, therefore, paramount.

The designation Chartered Scientist (CSci) ensures high and improving standards across all scientific disciplines. The Chartered Scientist designation reflects best practice in science and is set at a benchmark level throughout the profession.

To apply for Chartered Scientist through the Institute of Physics, candidates must already be, or qualify for Member status or be a member of an organisation with which the Institute has an agreement. Non-physicists working outside physics will be advised to contact the relevant professional body to make an application.

Current Members or Fellows with chartered physicist or engineer status can apply for CSci through a (simplified) grandparent route during 2004. The grandparent form can be found at the back of this document.

Requirements for Chartered Scientist

The benchmark route is the successful completion of a programme of study leading to a Masters degree **or** a relevant programme of study that is judged as being at an equivalent level.

Applicants need to demonstrate the following abilities:

- dealing with complex issues, both systematically and creatively, make sound judgements in the absence of complete data and communicate their conclusions clearly to specialist and non specialist audiences;
- exercising self-direction and originality in solving problems, and exercise substantial personal autonomy in planning and implementing tasks at a professional level;
- continuing to advance their knowledge, understanding and competence to a high level.

And meet the following competences during a period of work experience:

1. The broad knowledge, understanding, experience and skills appropriate to the level of CSci.
2. Demonstrate theoretical and practical methods in the analysis and solution of problems.
3. Plan and organise time effectively.
4. Demonstrate good written and oral communication skills.
5. Demonstrate good team skills.
6. Demonstrate effective influencing and negotiation skills.
7. Demonstrate an understanding and commitment to Health & Safety, and environmental issues relating to your work.

8. Apply professional ethics in your work.
9. Demonstrate a commitment to continued learning and professional development.

All candidates need to have at least four years post-graduation level experience in the practice, application or teaching of science. At least two should be at an appropriate level of responsibility. The level of this experience should be at that suitable for a Chartered Scientist. It is recognised that not all Physicists will gain experience in each of these areas.

- Staff and/or budget management
- Project management
- Design, development and manufacture of new products or services
- Health, safety and environmental issues

If you are in Higher Education you should gain experience of the following.

- Lecturing in physics
- Contributing to the design of post-graduate courses
- Collaborating with industry and the wider physics community
- Publishing in scientific journals

If you are a school or college teacher you should gain experience of the following:

- Teaching physics at A-level standard or equivalent
- Contributing to curriculum development or extra-curricular science activity
- Liaison with local industry or working in the wider education community
- Supporting the professional development of colleagues (i.e. through providing training)

Professional Experience

All candidates must complete a professional review report (of a maximum of 1000 words) outlining their responsible professional experience, details of the Continuing Professional Development (CPD) they have undertaken during that experience, and how they have acquired the technical and managerial competences outlined on the previous page.

| Level of Degree(s) ¹ | Minimum total experience required (years) |
|-----------------------------------|---|
| BSc I/II Hons | 5 |
| MPhys/MSci | 4 |
| BSc + MSc | 4 |
| BSc I/II Hons + PGCE ² | 4 |
| BSc + MPhil | 4 |
| MPhys/MSci + PGCE | 4 |
| MPhys/MSci + MSc | 3 |
| BSc + PhD | 3 |
| MPhys/MSci + MPhil | 3 |
| MPhys/MSci + PhD | 2 |

Notes:

1. All degrees must be accredited.
2. PGCE only acceptable as relevant when candidate is a current teacher. Counts solely as masters equivalent, not as work experience.

How do I show Masters Level (eg MSci, MSc) equivalence?

Whilst a Masters Level degree is the exemplifying educational standard for the award of CSci, there are a number of different routes that can demonstrate the educational equivalence of a Masters degree.

- An accredited Bachelors degree followed by at least one year on an accredited training scheme. (The Scheme must be accredited by the Institute of Physics or another Science Council nominated body.)
- A post-graduate qualification provided it includes project work, such as a PhD or MSc.
- Applicants currently involved in teaching can use a PGCE to meet this requirement.

- A minimum of 12 months' professional experience (usually more) including in-depth study of a technical area and project work, as would be achieved in many jobs in industry. This may occur at the same time as the acquisition of responsible experience and the specified competences.

Revalidation

Chartered Scientist is available to those individuals who continue to practice the advancement or application of science at a high level, which is why continuing professional development (CPD) is monitored every 5 years for revalidation. The procedure for monitoring CPD can be found at careers.iop.org/csci.

How to Apply

All candidates should submit three copies of:

- the application form, supplemented by a CV.
- degree certificates. (These must be notarised copies of the originals – authenticated and signed by your manager/director/head of department as being true copies of the originals. Please do not send original certificates.)
- organisational chart
- professional review report of approximately 1000 words (see above, under Professional Experience).
- Masters equivalence report where necessary

Applications should be submitted to the Membership Department. Incomplete applications will be returned.

Payment should not be sent with the application. Successful applicants will be invoiced.

Guidance on Supporters

Candidates for Chartered Scientist should nominate two supporters for their application (see the relevant section on the application form). Supporters will be asked by the Institute to comment on the degree to which the candidate has mastered the various competences specified above and to indicate whether or not they support the application for CSci, taking due account of the criteria. To be able to comment fully, supporters will receive a complete copy of the candidate's application. Supporters **must not** be the candidate's line manager/supervisor and at least one **must** be from outside the candidate's organisation. Supporters **must** be Chartered Members or Fellows of an Institution and at least one **must** be a member of the Institute of Physics.

Registration Fees

An annual fee of £15 is payable to the Science Council. Successful applicants will be invoiced for this. Applicants through the grandparent route should submit payment with the form.

How applications are assessed

A panel of five Chartered Members or Fellows of this Institute sees each application. The Panel assesses the information in the application, and the comments of the supporters, and compares these against the requirements for Chartered Scientist. The Panel will choose to accept, reject or defer the application. Occasionally applications are deferred to allow the candidate an opportunity to supply additional information. Other deferrals are generally due to insufficient responsible experience. Where an application is deferred or rejected the applicant will receive a letter explaining the reason for this.

The assessment process is expected to take six-weeks from the receipt of the second supporter form.

Contact

Please contact the Professional Standards Office if you have any questions.

- Telephone +44 (0) 20 7470 4800
- Email csci@iop.org

SECTION C - PRESENT COURSE OF STUDY

Name and Location of University/College (eg. University of Bristol)
Department (eg. Department of Physics)
Course Title (eg. BSc Physics or PhD Physics)
Date started (eg. 01/09/2001)
Expected completion date (eg. 01/07/2004)

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SECTION D - QUALIFICATIONS ALREADY OBTAINED

If you obtained your degree from the Open University, please send a list of courses studied in your degree with your application.

- (1) **UNIVERSITY** - eg. University of Bristol
- (2) **DEGREE** - eg. BSc in Physics and **CLASS** - eg. 2:2
- (3) **DATE OF AWARD** - eg. 01/07/2000

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| (1) |
| (2) |
| (3) |

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Please enclose a copy of your certificate(s)

SECTION E - THE INTERNET REGISTER OF MEMBERS

The Register of Members is available on the **WWW** to members only.

As a member you will be able to search the Register to find contact details for other members. Access to the Register will be through the Institute's restricted site at <http://members.iop.org>

**The address used for Institute correspondence will be used by default for your entry on the Register.
If you wish to use an alternative address for your entry please let us know.**

SECTION F - DATA PROTECTION

I **do not** wish my name and address to be made available to suppliers or providers outside the Institute.

SECTION G - STATEMENTS BY SUPPORTERS

To be completed if applicable to class applied for, see guidance notes and the checklist.

Supporters must be personally familiar with the work of the candidate.

SUPPORTER 1

| |
|-----------------------------|
| Title |
| Name |
| Job Title |
| Address |
| Postcode |
| Institution |
| Membership Grade and Number |

SUPPORTER 2

| |
|-----------------------------|
| Title |
| Name |
| Job Title |
| Address |
| Postcode |
| Institution |
| Membership Grade and Number |

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|---|
| I wish to apply for free membership under the EPSRC scheme (please tick box) <input type="checkbox"/> |
| EPSRC have confirmed that they will be funding my postgraduate studies, and I agree to the terms and conditions of the scheme |

TERMS AND CONDITIONS

By joining under the scheme, students are confirming that they:

- are supported by the EPSRC for their postgraduate studies (in the case of project students, this is to be confirmed by the student's supervisor)
- agree for some of their personal details provided to the Professional Body/Learned Society to be provided to EPSRC to confirm they are supported from EPSRC funds and have applied to join only one society;
- agree to the Learned Institution/Society forwarding details of their occupation to the EPSRC

(for information about the EPSRC free membership scheme go to www.epsrc.ac.uk or email shavinder.kalcut@iop.org)

SECTION H - OBLIGATION TO CHARTER & BYLAWS *(copy available for inspection upon request)*

I, the undersigned, having applied for election as a member of the Institute of Physics, hereby declare that if elected I will be governed by the Charter and Bylaws of the Institute from time to time in force; and that whilst a member of the Institute I will advance the object of the Institute so far as shall be in my power; I undertake to adhere to the code of conduct of the Institute; I will also undertake that I will forthwith cease to exercise any of the privileges of membership on receipt of a notice from the Honorary Secretary that in accordance with some one or more of the Bylaws I have been declared to be no longer a member of the Institute, and I will forthwith upon ceasing to be a member return any books, papers or other property belonging to the Institute, or for which the Institute is responsible, in my possession or entrusted to me.

I certify that the information given by me in this application is correct and I have included everything requested on the checklist.

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|------------------------|
| Signature of applicant |
|------------------------|

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|------|
| Date |
|------|

Subject and Professional Groups

Please select the group(s) you wish to belong to

- Affiliates - first group free
- Student Members – first group free
- £5.00 per year for each additional group

You will automatically become a member of any division to which your chosen group(s) are affiliated. The divisions are as follows and are given in brackets after the group name.

A = Optics and Photonics

B = Division of Atomic, Molecular, Optical and Plasma Physics

C = Condensed Matter and Materials Physics

D = Nuclear and Particle Physics

E = Surface Science and Technology

Subject Groups

Please tick the groups you would like to join

| | |
|---------------------------------------|---|
| Atomic and Molecular Interactions (B) | BRSG: The Magnetic Resonance Group |
| Carbon (C) | Chemical Physics (B) |
| Combustion Physics (A) | Complex Fluids (C) |
| Computational Physics (ABCDE) | Dielectrics |
| Education | Electron Microscopy and Analysis (C) |
| Electrostatics | Environmental Physics |
| Gravitational Physics | High Energy Particle Physics (D) |
| Higher Education | History of Physics |
| Instrument Science and Technology (A) | Ion and Plasma Surface Interactions (CE) |
| IT, Electronics and Communications | Liquids (C) |
| Low Temperature (C) | Magnetism (C) |
| Materials and Characterisation (AC) | Mathematical and Theoretical Physics (CD) |
| Medical Physics | Nanoscale Physics & Technology (CE) |
| Neutron Scattering (C) | Nuclear Physics (D) |
| Optical (A) | Physical Acoustics (C) |
| Plasma Physics (BE) | Polymer Physics (CE) |
| Printing, Packaging and Papermaking | Quantum Electronics and Photonics (ABC) |
| Semiconductor Physics (C) | Spectroscopy (AB) |
| Stress and Vibration | Structural Condensed Matter Physics (C) |
| Superconductivity (C) | Theory of Condensed Matter (C) |
| Thin Films and Surfaces (CE) | Tribology (E) |
| Vacuum (E) | |

Professional Groups

| | |
|---------------------|--------------------------|
| Consultancy | Energy Management |
| Engineering Physics | Physics and Law |
| Physics in Finance | Total Quality Management |
| Women in Physics | |

APPLICATION CHECK LIST

| Class of Membership | Application Form | Supporter | CV | Copies of degree certificate | Professional Review Report | Masters Equivalence Report* | Application Fee |
|----------------------------|-------------------------|------------------|-----------|-------------------------------------|-----------------------------------|------------------------------------|------------------------|
| Affiliate | x 1 | | | | | | |
| Student | x 1 | | | | | | |
| Associate Member | x 1 | | | x 1 | | | |
| Member | x 2 | x 1 | x 2 | x 1 | | | |
| Fellow | x 3 | x 2 | x 3 | | x 3 | | |
| CPhys | x 3 | x 2 | x 3 | x 1 | x 3 | x 3 | |
| CEng | x 3 | x 2 | x 3 | x 1 | x 3 | x 3 | £150.00 |
| CSci | x 3 | x 2 | x 3 | x 1** | x 3 | x 3 | |

Additional copies will be sent to supporters for comment.

* Where applicable - see guidelines for further information.

** Must be a notarised copy - see guidelines for further information.

APPLICATION FOR CHARTERED SCIENTIST

Chartered Scientist is a new, chartered status from the Science Council. This status will bring the scientific community closer together and enhance its identity in the modern economy.

This application form is only for use by members of the Institute of Physics who hold either Chartered Physicist or Chartered Engineer status and are applying during 2004¹.

| | |
|--------------------------|--|
| Membership Number | |
| Name | |
| Address | |

Chartered Scientists have performed professional development and gained experience at a level of responsibility suitable for a Chartered Scientist.

| | |
|--|-------------|
| I have gained relevant scientific experience and wish to be elected to Chartered Scientist status. | Please tick |
| I agree to abide by the Institute of Physics' code of conduct ² | |
| I agree to maintain CPD records and to have these monitored in 5 years time | |

There is no application fee for Chartered Scientist. An annual charge of £15.00 is payable to the Science Council through the Institute of Physics. The first annual subscription should be sent with this form. You can either send a cheque, payable to "The Institute of Physics" or fill in your credit card details below. In the future this fee will be added to your annual subscriptions.

Credit card number: _____ expiry date: __ / __

I declare all the information provided here is accurate.

Signed: _____ Date: _____

Please return this form to: Membership Department, Institute of Physics, 76 Portland Place, London, W1B 1NT, United Kingdom

Or fax it to: +44 (0) 207 470 4848.

¹ Applicants without chartered status should go to careers.iop.org/csci for details of how to apply.

² Available at www.iop.org