Cover image: High pressure, high temperature synthetic diamond grit
Photograph credit: Dr Jonathan Newland
Welcome to the DST CDT

The EPSRC Centre for Doctoral Training in Diamond Science & Technology (DST) brings together leading academics from eight partner universities and industrialists from more than 30 companies to deliver research excellence and a unique, comprehensive training package in DST.

We would like to welcome you to the Centre and hope that your time here will be productive and invaluable to your future career in research or diamond-related industries.

We hope that by working together, you can build on your collective strengths, develop research skills and take advantage of the network of professional contacts you will create through this experience.

We look forward to welcoming you onto our programme. Please let us know if you have any questions.

Professor Mark Newton
Director, EPSRC Centre for Doctoral Training in Diamond Science & Technology
University of Warwick
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DST Points of Contact

Please contact us if you have any questions.

We will be happy to advise you or point you in the right direction.

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MSc Course Leader
Warwick Lead
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Teaching Fellow
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Terri Sullivan
CDT Coordinator
DST.admin@warwick.ac.uk
Professor Andy Evans  
**Aberystwyth Lead**  
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Dr Joshua Nunn  
**Bath Lead**  
j.a.s.nunn@bath.ac.uk  

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Professor Paul French  
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Professor Jonathan Goss  
**Newcastle Lead**  
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Professor Jason Smith  
**Oxford Lead**  
jason.smith@materials.ox.ac.uk  

Professor Alan Kemp  
**Strathclyde Lead**  
alan.kemp@strath.ac.uk
Life at Warwick

The University of Warwick boasts one of the largest multi-artform venues in the UK. Warwick Arts Centre houses two theatres, a concert hall, a cinema and an art gallery. The venue showcases some of the best in UK and international drama, comedy, dance, art, film and live music — from contemporary to classical.

Warwick Students’ Union (Warwick SU) offers great food, amazing entertainment and over 300 sports clubs and student societies. Getting involved with the Union is a great way to meet new people at Warwick. The postgraduate community is represented by a dedicated Postgraduate Officer.

Warwick University has a great location in the Heart of England and is easy to reach via train, car or air. Coventry is about 15 minutes away, Birmingham, and the historic towns of Warwick, Stratford-upon-Avon, Kenilworth and Leamington Spa are in easy reach. London is only one hour by train from Coventry Station.

Sport at Warwick

Sporting life is great at Warwick, whatever your interest. Warwick Sport supports 65 sports clubs as well as organising a wide range of exercise classes and courses.

There are excellent facilities including a swimming pool, gym, climbing wall, squash courts and playing fields.
Warwick Library

Learning at Warwick is supported by an excellent library as well as the Learning Grid, which offers wireless access points, networked PCs and many other resources.

The Postgraduate Hub (PG Hub)

The Postgraduate Hub (or PG Hub) is the heart of the postgraduate community at Warwick. It has facilities for both independent and group study, presentations, meetings and workshops. It also provides you with a space to socialise with peers, meet for informal chats or chill out.

The space comprises a large open-plan atrium area with comfortable seating and a SMARTboard, a quiet work space, an IT suite with PCs, bookable group rooms, and a relaxation room.
The Diamond Science & Technology Centre

The Diamond Science & Technology Centre for Doctoral Training (DST CDT) is the world’s first postgraduate training centre in DST. The Centre brings together industrialists and world-leading academics drawn from universities across the UK, to deliver a coherent training programme in DST.

The Centre is based within the state-of-the-art Materials and Analytical Sciences building at the University of Warwick. Taught sessions take place within a purpose-designed seminar room, whilst a student workroom promotes collaborative learning, exploiting the diverse strengths of our students for the benefit of all.

Students also have access to a shared kitchen and lounge area. As the main users of these facilities you will be expected to take shared responsibility for keeping these areas clean and tidy.

go.warwick.ac.uk/dst
DST CDT 1+3 Training Programme (P-F3P9)

The DST four-year programme consists of a one-year taught MSc in DST based at the University of Warwick, followed by a three-year PhD based at one of the nine partner institutions.

**Taught MSc**

The purpose of the MSc is to provide students with a detailed understanding of the fundamentals of materials science, from the classical to the quantum, but with an emphasis on diamond and related materials, and application-driven themes. The MSc will give students the theory, experience and problem solving skills needed to drive advances in the technologies that underpin this field.

**Facilities**

Under the umbrella of the Global Research Programme, Warwick is home to an extraordinary array of facilities to carry out world-class research and to provide training in materials science. You will benefit from hands-on training on state-of-the-art research instrumentation during your MSc year and, due to your continuing relationship with the University of Warwick through the Centre, you will continue to benefit from these facilities during your PhD research.
**MSc Course Structure**

The MSc comprises ten taught modules, covering a wide range of themes, and two ten-week research projects. Each module is typically taught over a two-week period.

<table>
<thead>
<tr>
<th>Core Modules: Taught</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CH976 Novel and Efficient Methods of Material Synthesis</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX904 Properties and Characterization of Materials</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX905 Defects and Dopants</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH977 Theory and Modelling of Materials</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX906 Manufacturing the Future: Industrial Diamond</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH978 Surfaces, Interfaces and Coatings</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH979 Devices and Fabrication</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX907 Diamond Photonics and Quantum Devices</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH980 Applications of High Performance Materials</td>
<td>10 CATS</td>
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</tbody>
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**Elective Modules (students must choose 1)**

<table>
<thead>
<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>CH914 Electrochemistry and Sensors</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX908 Biomedical Optics and Applications</td>
<td>10 CATS</td>
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</tbody>
</table>

**Core Modules: Research**

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<tr>
<td>CH981 Mini-Research Projects</td>
<td>80 CATS</td>
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Term 1 Core Modules: October - December

CH976: Novel and Efficient Methods of Material Synthesis
Students will gain a working knowledge of a range of advanced materials in use by UK science and technology industries, with an emphasis on diamond. The properties, fabrication processes and applications of these materials will be discussed. A visit to Element Six’s Global Innovation Centre at Harwell is included.

PX904: Properties and Characterization of Materials
This module provides an overview of important material properties, with a focus on three-dimensional crystals. Students will develop (i) an awareness of quantum mechanical theory of electronic structure and its role in determining material properties and (ii) an understanding of the electronic, mechanical, thermal, optical and magnetic measurements that can be used to investigate the properties of a material.

PX905: Defects and Dopants
This module covers the identification of intrinsic defects, dopants and impurities in semiconductors and insulators with a specific focus on diamond. Once the different types of defects have been introduced, characterisation techniques and the information they reveal on defect properties will be discussed.

CH977: Theory and Modelling of Materials
Students will be taken from the basic principles of bonding at the atomic scale, through molecular and crystalline systems, arriving at the macroscopic system in terms of elastic properties, implantation damage and electronic devices. Through a combination of theory and practical application of computational simulation, students will review the most commonly used theoretical approaches to modelling materials, and develop an understanding of the advantages and disadvantages of each method.

PX906: Manufacturing the Future: Industrial Diamond
This module introduces the students to polycrystalline diamond (PCD) composites and related materials, high pressure-high temperature synthesis and the importance of defects. The machining characteristics of PCD will be discussed along with tool fabrication, machining trials, wear and failure mechanisms.
Term 2 Core Modules: January - March

**CH978: Surfaces, Interfaces and Coatings**
The focus of this module is surface-specific characterisation methods widely applied in research and industrial laboratories. The emphasis is on diamond surfaces, but the techniques discussed are relevant to other structurally related materials such as Si, Ge, III-V, II-VI semiconductors and the surfaces of other semiconductors, insulators and metals. A visit to the Diamond Light Source at Harwell is included.

**CH979: Devices and Fabrication**
This module aims to cover the basics of clean room technologies and device fabrication. The specifics of diamond processing will be addressed in context with silicon technologies. Operation of basic semiconductor devices will be explained.

**PX907: Diamond Photonics and Quantum Devices**
Students will achieve a basic grounding in the physics and application of diamond to photonics and quantum devices. They will learn about principles of operation, advantages and challenges of diamond, and device design and manufacture. They will gain practical experience in optics and spintronics experiments, and in finite element modelling of relevant optical systems.

**CH980: Applications of High Performance Materials (October - March)**
This module aims to promote an appreciation for the wider context of DST: the applications alternative materials, and competitor technologies. Students will be encouraged to collate and critically analyse a body of scientific work and practice presenting this information to a variety of audiences.
Term 2 Elective Modules: January

**CH914: Electrochemistry and Sensors**
This module provides a grounding in the fundamentals of electrochemistry, electroanalytical techniques and sensor technology. Potentiometry, voltammetric and amperometric techniques, microfluidic devices, lab-on-a-chip methods, and electronic noses and tongues are discussed.

The course draws on Warwick’s major strengths in this area and covers developments in ion selective electrodes, electrode kinetics, mass transport and key techniques, such as linear sweep and cyclic voltammetry, hydrodynamic electrodes, stripping voltammetry, ultra-microelectrodes and array devices.

**PX908: Biomedical Optics and Applications**
Students will develop an understanding of biomedical optical imaging and spectroscopy and the potential biomedical applications of diamond. A variety of optical microscopy techniques are introduced including wide-field, confocal, fluorescence and advanced optical microscopy. Tissue optics (absorption, scattering, spectroscopy), imaging in biological tissue (OCT, multi-photon) and an overview of labels and probes for optical imaging will also be discussed.
Module Teachers

**Aberystwyth**
Professor Andy Evans  
Dr Martin Wilding

**Bath**
Dr Joshua Nunn

**Bristol**
Professor Mike Ashfold FRS  
Dr Simon Kohn  
Professor Martin Kuball  
Professor Paul May

**Cardiff**
Professor Paola Borri  
Dr Stephen Lynch  
Professor Oliver Williams

**Imperial**
Dr Daniele Dini  
Dr Chris Dunsby

**Newcastle**
Dr Jon Goss

**Oxford**
Professor John Foord  
Dr Brian Patton  
Professor Jason Smith  
Professor Richard Todd

**Strathclyde**
Dr Erdan Gu  
Dr Jennifer Hastie  
Professor Alan Kemp

**Warwick**
Dr Claire Dancer  
Professor Julie Macpherson  
Professor Phil Mawby  
Dr Peter Gammon  
Dr Gavin Morley  
Professor Mark Newton  
Professor Pat Unwin  
Dr Claire Hurley

**Industry (De Beers/E6)**
Dr Geoff Davies  
Dr David Fisher  
Dr Philip Martineau

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**MSc Timetable**

The MSc timetable is available via the following link:  
[go.warwick.ac.uk/dst/msc_programme/timetable](go.warwick.ac.uk/dst/msc_programme/timetable)

Please check the timetable regularly as it may be subject to change.
Online Learning Environment: Moodle

All learning materials can be accessed via the Moodle module pages: moodle.warwick.ac.uk

Please inform the Teaching Fellow if you cannot access the Moodle page for one of your modules. Assessed work must be submitted via Moodle, unless otherwise stated.

MSc Research Projects

Research projects in DST are proposed by members of staff from across the consortium of universities and industrial partners associated with the Centre.

Projects cover a range of topics, from material characterisation and processing to applications.

The projects are carried out either at one of the partner universities or a sponsoring company, after completion of the taught modules.

Term Dates 2017/18

Pre-sessional week
Monday 25 - Friday 29 September 2017

Autumn Term
Monday 2 October 2017—Saturday 9 December 2017
Exam Dates Friday 15—Monday 18 December 2017

Spring Term
Monday 8 January 2018—Saturday 17 March 2018
Possible Exam Dates Friday 23—Tuesday 27 March 2018
DST CDT Retreat Wednesday 4—Friday 6 April 2018

Summer Term
Monday 23 April 2018—Saturday 30 June 2018
Exam Conventions

In order to pass the taught MSc, students must achieve an average of 50% for each of the modules listed on page 10.

- For an MSc with merit, students must gain an average of 60% over the entire MSc.
- For an MSc with distinction, students must gain an average of 70% over the entire MSc.
- If a student fails a module, they will be allowed to re-sit components marked below 50% once. However, the whole mark for the module or research project will then be capped at 50%.

The University requirements for taught postgraduate awards are available via the following link:

www2.warwick.ac.uk/services/aro/dar/quality/categories/examinations/conventions/pgt

Should you have any queries or concerns during your MSc programme, please contact the Teaching Fellow, the DST CDT Director, the MSc Course Leader, or the DST Administrator.

Progression to PhD

To progress to the PhD, students must achieve a pass for the taught MSc.
Extenuating/Mitigating Circumstances

Extenuating or mitigating circumstances are events that have had a detrimental effect on your study, to the point that it is in your interest to draw your department’s attention to them and ask for them to be considered in mitigation of poor performance. Such circumstances include (but are not limited to) illness, both bodily and emotional; disability; the severe illness or death of a close family member; a shocking or traumatic personal experience. In addition, sudden, unexpected changes in family circumstances might affect your ability to make academic progress as a consequence of their demonstrable emotional impact upon you, and may also be considered as mitigation.

The University is aware that in some cultures it is considered shameful or embarrassing to disclose the details of these kinds of circumstances to those outside one’s family. This is not the case in the prevailing UK culture and you should be aware that your department and the University are fully supportive of students in difficult circumstances and want to assist if at all possible. If you feel inhibited from talking to a member of academic staff (such as the Teaching Fellow) in the first instance, you may also consider talking to a member of your SSLC, the Students’ Union, the University Senior Tutor or a member of staff at the Wellbeing Support Services for initial informal advice.

Clearly, in order for your circumstances to be considered as mitigating by your department, they must be conveyed formally to someone in DST (usually the Teaching Fellow, MSc Course Leader or the CDT Director). The University expects that you will discuss your circumstances before exam boards meet, so that they may be taken into account in good time. You should be aware that, in the event that you feel you need to appeal the outcome of an examination board, offering extenuating or mitigating circumstances at that point, you will need to provide a (very) good reason why you withheld the information earlier. Without wanting to invade your privacy, the University does expect that you bring such circumstances to your department’s attention in a timely manner, despite the discomfort you might feel in so doing. Failure to disclose such circumstances at a time when you could have done so may subsequently be problematic. Your department will do all it can to support you in difficult situations.
**Attendance Monitoring**

The DST CDT is required by the University to monitor your attendance and engagement with your course of study. In order to satisfy these monitoring points, MSc students are required to attend all taught and practical sessions, meetings and seminars, and to submit assessed work for the MSc exam board.

PhD students are required to attend the annual De Beers Diamond Conference and DST CDT retreats. They must also fulfil any additional requirements of the PhD host institution.

International students should be particularly aware of the consequences of missing contact points: the University is required to monitor students’ attendance and progression and report to the Home Office any failure to meet the University’s requirements for progression and attendance as set out in the University Regulation on Student Registration, Attendance and Progression.

**Coursework Deadlines, Penalties and Extensions**

The Teaching Fellow will clearly state deadlines for submitting assessed work. Submission will be via Moodle.

The penalty for late submission of work where no formal extension has been granted has been set at three percentage points, per day. A piece of work that would have scored 65% if it had been handed in on time would be awarded 62% if it were one day late, 59% if two days late, etc.

Coursework extensions can only be obtained under special circumstances (i.e. illness or other personal circumstances) from the MSc Course Leader (not the module leaders).

Please make yourself aware of the University’s policy on plagiarism:

[warwick.ac.uk/plato](http://warwick.ac.uk/plato)

If you are in any doubt as to whether or not the work you have produced would compromise these rules then please talk to a DST staff member or the module leader before submitting your work.
Attendance, Holidays and Absences (MSc)

Attendance at taught MSc sessions (lectures, workshops, laboratory practicals etc.) is mandatory. In the first instance, please email the DST Teaching Fellow if you are absent due to illness.

For periods of absence due to illness of one week or more, in addition to the absence form, a doctor’s note clearly stating the reason for the absence together with start and end dates is required. If the Teaching Fellow has any reason to believe that the system of self-certification for absences is being abused, a doctor’s note may be requested from the first day of any absence.

Absence due to illness from any sessions leading directly to assessment or examinations will need to be excused by a doctor’s note irrespective of the duration of absence. Laboratory sessions are not to be missed without a supporting doctor’s note (or genuine emergency, bereavement etc.); if they are, you will not be able to submit work for that portion of the module. When laboratory sessions are missed on an unauthorised basis, you will be required to meet with the MSc Course Leader to discuss the reason for your absence in more detail.

Periods of absence due to causes other than illness should be agreed in advance with the Teaching Fellow as well as any relevant module leaders or supervisors, prior to the time of absence. You must complete the online form for each period of absence.

If you do not attend all compulsory parts of the course you may be unable to complete your MSc and your stipend may be stopped.

The timing of annual leave for MSc students is prescribed by their timetable.

Attendance, Holidays and Absences (PhD)

DST PhD students are expected to report absences and take annual leave according to the rules of the host institution.
**DST CDT Formal Requirements**

In addition to your assignments, during the MSc year you are required to attend all taught and practical sessions, and fortnightly DST seminars (related to CH980: Applications of High Performance Materials).

During each term, students will have individual meetings with the Teaching Fellow to discuss any concerns, however you are expected to inform a member of staff with any concerns immediately, so that we can rectify any problems that may arise in a timely manner.

You will be expected to attend the annual De Beers Diamond Conference (July, University of Warwick) and annual cohort-building events.

Whilst undertaking your PhD, you will fulfill the requirements of the host institution and any additional requirements from the DST CDT. You will complete regular online monitoring forms and will provide copies of PhD progression materials from the host institution to the Centre.

**Health and Safety**

MSc students are expected to abide by the local rules of the laboratories they use, and to obey all instructions given to them by the demonstrators.

PhD students are expected to undertake any health and safety training required and abide by the rules of the host institution.

**Access to MAS**

Access and exit of the main entrance to MAS is by University ID card.

Students are able to gain access to MAS Monday to Friday between 7:00am and 7:00pm. To enter the building outside these times you will need your University card programmed. To get access permission, contact the CDT Coordinator ([DST.admin@warwick.ac.uk](mailto:DST.admin@warwick.ac.uk)).
Personal Details and Email Accounts

It is the student’s responsibility to update their centrally held record with any changes in contact details (address, phone number, emergency contacts). You can do this at start.warwick.ac.uk

The DST CDT will primarily use Warwick email accounts as a means of contacting all students.

You are required to check your University email account at least twice a day unless this is impossible due to down times of the University’s IT system or because you have arranged to take annual leave.

It will be assumed that any message is received within 24 hours of being sent. Students are responsible for liaising with IT services about their University email account and user code if this is necessary. Students need to ensure that their University alias (e.g: A.N.Other@warwick.ac.uk) always points to their current user account. Please note that the user account may change with the transition from MSc to PhD and provisions will need to be made accordingly.

Students are responsible for keeping the CDT Coordinator and Teaching Fellow informed if there are any problems with their University email account so that alternative contact arrangements can be made.

Computing and Printing

DST CDT 1+3 students (P-F3P9) are provided with a laptop at the beginning of their MSc course.

Stand-alone MSc students (TPXA-F3P9) are provided with a laptop at the beginning of their MSc course; this remains the property of the DST CDT and must be returned after the MSc year.

Please note that you are expected to make sufficient arrangements for backing up your work.

Printers: The DST CDT provides its students with free printing. Please do not abuse your photocopying and printing privileges.
Funding and Fees

The stipend for 2017/18 is £14,553. This is subject to the standard EPSRC terms and conditions: 
www.rcuk.ac.uk/skills/training

Fees for the taught MSc for 2017/18 are £8,170 (Home/EU students).

PhD students are allocated £3,100 to cover additional costs associated with both mini-projects during the taught MSc.

Fees during the PhD will vary according to the host institution. If based at the University of Warwick the fees for 2017/18 are £4,195 (Home/EU students).

PhD Budget Management

All DST students are allocated their own consumables and travel budgets. These are managed by their PhD supervisor. Over the course of their research PhD students are allocated:

- £3,000 for travel
- £8,000 for consumables

Expenses and Travel Guidelines

It is expected that PhD students will attend one international conference over the three-year period, and will attend the De Beers Diamond Conference annually.

Expenses claims for travel and subsistence may be reimbursed through your host institution’s claims system.

You need to keep and submit all relevant receipts otherwise claims cannot be reimbursed.

It is expected that you will maximise what you can achieve with your budget, i.e. do things as cheaply as possible! You must also abide by the host institution’s financial regulations.

go.warwick.ac.uk/dst
PhD Meetings and Reports

The DST CDT’s system of quality assurance for PhD students, alongside that of the host institutions progression requirements, is a combination of online monitoring and meetings with the DST PhD Coordinator. These will be completed, every six months.

These meetings are meant to help you identify where you are with your project. They are to establish:

- That the progress seen is appropriate to the stage of the research programme
- That the research methods are appropriate and practical
- If any theoretical and practical difficulties are hindering the project
- If the level of contact with supervisor(s) is adequate
- That a realistic plan is in place for completion of the research within the expected time frame

You should follow up any recommendations for progression from either the host institution or DST CDT.

PhD Reporting: researchfish®

Throughout your research, you will be expected to update your records on researchfish®, in order that research funders and organisations are able to track the outcomes of your research.

About researchfish®

www.rcuk.ac.uk/research/researchoutcomes/researchfish

www.researchfish.net
Transferable Skills

During the taught MSc year, there is a strong emphasis on transferable skills. Alongside oral and written science communication skills development, students are encouraged to lead on managing interactions between their PhD and mini-research project supervisors, thereby taking an active role in planning their own research.

During their PhD research, students will attend residential workshops that will cover entrepreneurship, IP, business proposals etc.

In addition, there will be opportunities to take accredited transferable skills courses such as The Postgraduate Certificate in Transferable Skills in Science (PGCTSS)

www2.warwick.ac.uk/fac/sci/pioneers/pgcts

Year 1 focuses on team working in a research environment and interactions with supervisors, colleagues and younger scientists. Year 2 looks at the communication of research to general (non-scientific) audiences (with the end point of this course being an interaction with a real audience of the students’ choice). Year 3 involves a particular emphasis on decision making, career guidance, job hunting, thesis planning and leadership. This programme is complemented in years 1-3 by Doctoral Skills modules 1, 2 and 3, as well as individually-designed research-related advanced training programmes with lecture courses, summer schools, conferences, laboratory visits etc. Your PhD advisory committee reviews your progress which is formalised in the form of The aim of this accredited Certificate is to help you to be a successful doctoral researcher and to be even more successful in your post-doctoral career than you might otherwise have been.
Outreach

The DST CDT aims to promote Diamond Science & Technology, both nationally and globally, to the general public and the wider academic community through outreach activities. We aim to bring diamond to the forefront of public attention; showcasing our research through exhibitions using thought provoking, interactive demonstrations.

Throughout your course, you will be encouraged to participate in various outreach activities to promote your research and the work of the DST CDT.

go.warwick.ac.uk/dst/news_events
Wellbeing Support Services

There is a comprehensive network of support and welfare services available to support you in times of difficulty. There is often more than one service which may be able to help, and services work together to ensure that any problems are dealt with swiftly and effectively.

Information about support services can be found at:

www2.warwick.ac.uk/services/supportservices

Student-Staff Liaison Committee (SSLC)

SSLCs are student-led committees that form the basis for the representation of students' views within the department and at higher university committees. They are an integral feature of the University’s quality assurance framework. SSLCs provide a forum for academic staff and students to discuss issues relating to a module, course, department or centre.

The DST CDT has an SSLC. The committee comprises two representatives for the MSc cohort and one representative from each PhD cohort, along with the Teaching Fellow, MSc Course Leader and CDT Coordinator.

You should nominate representatives who can represent your views to the DST staff. The committee should meet at the end of terms 1 and 2 and at the annual De Beers Diamond Conference. Additional meetings should be convened as issues arise.

All SSLC representatives should attend one of the SSLC training sessions: www.warwicksu.com/sslc
The EPSRC Centre for Doctoral Training in
Diamond Science & Technology
in collaboration with:

[Logos of collaborating institutions]