Data-Centric Engineering

The Application Process
Dr Gabriella Caminotto, Centre Manager
THE APPLICATION PROCESS
• Key aim: Diversify talent in research
  Recognise skills gained outside academia
  Open new routes into research careers

Redesigned Recruitment
  Less emphasis on academic qualifications
  More emphasis on your skills and competencies

CV
  Competencies
    300-700 words
    Problem solving
    Innovation
    Critical analysis
    Adaptability
    Responsibility
    Communication

Research Proposal
  300-700 words

Reflective Summary of skills
  200-500 words

Undergrad / postgrad degree are not a pre-requisite
  … but we expect high level skills
  demonstrated through examples from your career

Last degree completed in 2018 or earlier
HOW TO APPLY?

- Competencies statement
- Research Proposal
- Self-Reflective Summary
- CV
Online application: [https://www.qmul.ac.uk/dce/applications/](https://www.qmul.ac.uk/dce/applications/)

Documents to submit in support of your online application:
- A description of up to five of your **work based competencies** illustrated through workplace projects (300 to 700 words).
- A **proposal for a doctoral level research project** that you are keen to undertake, along with a description of how this fits within the remit of Data-Centric Engineering (300 to 700 words).
- A **self-reflective summary** on the skills that you believe you need to develop in order to undertake doctoral level research (200 to 500 words);
- Your **CV**
- Two **references** (one being a recent employment reference)
HOW TO APPLY?

Competencies statement
RECOGNISING & ARTICULATING
YOUR SKILLS & COMPETENCIES
Competency based application process:
- Explain your skills and competencies in areas beyond academia.
- Use your industry or non academic experience to support your application.
KEY COMPETENCIES WE ARE LOOKING FOR:

Problem Solving
Innovation
Critical Analysis
Adaptability
Responsibility
Communication
ARTICULATING YOUR COMPETENCIES
KEY COMPETENCIES WE ARE LOOKING FOR:

Problem Solving
Innovation
Critical Analysis
Adaptability
Responsibility
Communication

Please refer to Nick’s competencies slides
HOW TO APPLY?

Please refer to Eram’s Research Proposal slides
IDENTIFYING & CONTACTING A PROSPECTIVE SUPERVISOR
# Identifying a Supervisor

## How to identify a potential supervisor

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<th>Route</th>
<th>How to identify a potential supervisor</th>
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<tr>
<td>Professional Doctoral Scholar</td>
<td>Your employer most likely has a project or set of projects they would like you to work on. Visit the links to our Schools to find a QMUL supervisor with relevant expertise. If in doubt, contact the Team at <a href="mailto:dce-cdt@qmul.ac.uk">dce-cdt@qmul.ac.uk</a></td>
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</tbody>
</table>
| Enterprise Doctoral Scholar | Are you interested in one of the projects proposed by a QMUL supervisor? If so, contact the supervisor of the project you are interested in to discuss your proposal as part of your application.  
**OR**  
Do you have your own research idea, and do you need support in developing your research proposal? Explore the links to our 5 Schools to find a supervisor who works in a research area that you are interested in, and get in touch with them to discuss your idea and interests. |

[https://www.qmul.ac.uk/dce/research/finding-a-prospective-supervisor/](https://www.qmul.ac.uk/dce/research/finding-a-prospective-supervisor/)
FOR EXAMPLE...

www.qmul.ac.uk/dce/research/research-projects-on-offer/

Research Projects on Offer

Below you will find a range of projects offered as part of our Centre for Doctoral Training, organised by School (i.e. the School the project Supervisor is based in).

If you are interested in one (or more) of these projects, please contact the supervisor listed after the project summary to discuss developing the proposal as part of your application.

Data-Centric Engineering Projects offered within the School of:

Electronic Engineering & Computer Science
Physics & Astronomy
Mathematical Sciences
Engineering & Materials Science
Biological & Chemical Sciences
Medicine & Dentistry (William Harvey Research Institute)

Engineering & Materials Science

Below you will find Data-Centric Engineering projects offered by supervisors within the School of Engineering & Materials Science

This is not an exhaustive list. If you have your own research idea, or if you are a prospective PDS candidate, please return to the main DCE Research page for further guidance, or contact us at dce-cdt@qmul.ac.uk

Modelling pregnancy outcomes to prevent preterm birth after exposure to air pollution during Covid19

Maternal exposure to air pollution is associated with adverse birth outcomes contributing to preterm birth. Air pollution results mainly from the combustion of fossil fuels and has become a major global public health issue for all people in all age groups.
FOR EXAMPLE...

Research Groups and Centres

We are well known for our pioneering research and pride ourselves on our world-class projects. Our research and projects are centred around a number of research groups and centres.

- 11th in the UK for Electrical and Electronic Engineering
- 6th in the UK for Electrical and Electronic Engineering
- 94% of the research rated or of international excellence

Research Groups and Centres

- Antennas & Electromagnetics
- Centre for Digital Music
- Centre for Advanced Robotics @ Queen Mary
- Centre for Intelligent Sensing
- Cognitive Science
- Communication Systems
CONTACTING A SUPERVISOR

Once you have identified a potential supervisor, it is time to get in touch!

When emailing them:

- include a **short introduction** about yourself and your background
- State that you are interested in applying to the Centre for Doctoral Training in **Data-Centric Engineering**
- Explain why you are interested in the project they proposed, and what skills/experience you would bring; OR
- Explain your research interests/ideas and ask if they are interested in supervising you;
- If you prefer to discuss this via a call, then ask when it would be a convenient time to discuss the project
- Avoid sending the same email to a lot of academics…
CONTACTING A SUPERVISOR

Once you have identified a potential supervisor, it is time to get in touch!

When emailing them:

• include a short introduction about yourself and your background
• State that you are interested in applying to the Centre for Doctoral Training in Data-Centric Engineering
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HOW TO APPLY?

Self-Reflective Summary
THE SELF-REFLECTIVE SUMMARY
SELF-REFLECTIVE SUMMARY

Max 500 words (i.e. 1 page)

Opportunity for self reflection

What skills do you feel you need to learn?

Consider what development needs you have and how you would engage with our programme and our support to meet these needs.
SELF-REFLECTIVE SUMMARY

Set yourself goals.
Prioritise those goals.
Set yourself deadlines for when you want to achieve them.
Recognise opportunities.
HOW TO APPLY?

The CV
THE CV
Show us that you meet the entry criteria; show us how you meet the entry criteria:

- Have you got previous experience working in a related field, preferably for a UK company or a company with a substantial connection to the UK; **WHAT? WHERE?**
- Have you got at least three years' relevant full-time employment (or equivalent)? **HOW MUCH / LONG?**
- Can you demonstrate skills & competencies acquired at work **WHAT? HOW?**

If you use a skills-based CV, you will still need to show us how you meet the criteria above (WHAT, WHERE, HOW MUCH/LONG)

- Have you got an undergraduate degree of 2:1 or above (or equivalent non-UK qualification) in a relevant subject such as Engineering, Physics, or Computer Science*?
- If not, have you got at least five years’ relevant work experience (post-degree or qualification)?
- When was your most recent degree awarded?
SELECTION CRITERIA
Applications to the programme will be assessed according to the following criteria:

**The application is complete**: incomplete applications, e.g. applications missing the research proposal, CV, competencies statement and/or self-reflective summary, will not be shortlisted. Make sure you include all documents required before you press “submit”

**The application demonstrates:**
- relevant work-based competencies (assessed via competencies statement and CV)
- relevant work experience (assessed via CV)
- research potential (assessed via research proposal and CV)
- an awareness of training and development needs, and motivation (self-reflective statement)
HOW TO SUBMIT AN APPLICATION
**THE ONLINE APPLICATION PORTAL**

Application link available at [www.qmul.ac.uk/dce/applications](http://www.qmul.ac.uk/dce/applications)

A presentation taking you through the online process step-by-step will be available on our website on Thursday, 15th April.

<table>
<thead>
<tr>
<th>Your Application</th>
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<tbody>
<tr>
<td><strong>Selected Course</strong></td>
<td><strong>Course Code</strong></td>
<td><strong>Course Sequence</strong></td>
<td><strong>Start date</strong></td>
<td><strong>Mode of Attendance</strong></td>
<td><strong>Academic Year</strong></td>
</tr>
<tr>
<td>1. EngD FT Data-Centric Engineering - Semester 1 start</td>
<td>RFQM-FJFJ-09</td>
<td>0001</td>
<td>20/Sep/2021</td>
<td>FULL-TIME</td>
<td>2021/22</td>
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Create New User

- **Title**: Please select one
- **Surname**: 
- **Forename(s)**: Forename 1, Forename 2, Forename 3
- **Date of Birth**: DD/MM/YYYY

Login Details

- **Email Address (personal)**

This will become your username.
WHERE DO I UPLOAD THE DOCS REQUIRED?

The application explicitly asks you for your CV and your research proposal, so that is where you upload those two documents.

Our application process is bespoke, so the portal will not explicitly ask you to upload your competencies statement or your self-reflective summary. The portal will ask you for a “personal statement”.

What should you do?

- Combine your competencies statement and your self-reflective summary into one document.
- When the portal asks you to upload the personal statement, upload your combined document (competencies statement & self-reflective summary).

Please remember this step — incomplete applications will not be shortlisted!
WHERE DO I UPLOAD THE DOCS REQUIRED?

Combine your competencies statement and your self-reflective summary into one document and upload it here!
1) Start preparing the application documents required, offline

2) Get in touch with a prospective supervisor; book an online meeting

3) Fill in the online application, upload all the required documents, and submit by 10/05

4) You will hear about the outcome of your application by 11/06

5) If shortlisted, interviews will be 15 – 25/06, 12-1:30pm and 5-6:30pm

6) Offers will be issued in mid-July

7) The programme starts in late September, Induction followed by 1st course

8) Welcome on board!