

## Molecular Analytical Science Centre for Doctoral Training

MAS students carry out two 10 week research projects during their MSc. ASI MSc students carry out a single 20-week project.

A key objective of these projects is to immerse each student in a research environment which addresses innovative Analytical Science. We particularly welcome collaborative projects between Industry and University.

The two MAS projects may be linked scientifically or may be completely independent; the 10 week period (as well as the 20 week period for ASI) includes write-up time. *The MAS PhD proposal call for 2019 will come out later in 2019. At least one of the PhD supervisors must have submitted a mini-project proposal in 2019.* Note that an academic may only be lead supervisor on one PhD project without external (i.e., industry) funding for the five cohorts of the MAS CDT.

Projects will be reviewed by an oversight group comprising the MAS CDT management team and representatives from industry partners. The proposals will also be assessed for the following qualities:

1. high quality research within the analytical science remit
2. good industry partnership (if applicable)
3. strategic scientific development for Warwick
4. technical training provided
5. originality
6. feasibility
7. adventure

### Industry Partners:

All projects must have a Warwick lead supervisor but we particularly welcome mini-projects developed in collaboration with an industry partner. Note that part but not all, of a project can be spent at an industry partner, with costs funded by the industry partner. Academics can also submit proposals without industry involvement but priority will be given to those with an industry partner.

Proposals can be with existing MAS Industry partners (AstraZeneca, Bruker, Diamond Light Source, Jasco, UHCW, Corbion, DSTL, Johnson Matthey, LGC, MedImmune, Linear Diagnostics, Lubrizol, Pfizer, and Syngenta). Other partnerships can be explored – please contact [Nikola Chmel](#), [Pat Unwin](#) or [Steven Brown](#) to discuss.

Academics can submit a **maximum of 2 MAS proposals** (this is only if there is an industrial co-supervisor on at least one of the projects, otherwise only one proposal can be submitted), but can only supervise 1 project per session. The number of **ASI proposals is not limited**.

### Session times:

Mini project 1 will run from 15<sup>th</sup> April 2019 - 28<sup>th</sup> June 2019 (including annual conference 10<sup>th</sup> – 13<sup>th</sup> June 2019)

Mini project 2 will run from 1st July 2019 - 6th September 2019

ASI projects will run from 15<sup>th</sup> April 2019 – 30<sup>th</sup> August 2019

Students will choose the projects they will undertake. If more than one student chooses a project, priority will be given to the student with the highest average module mark available at that time.

Project supervisors who do not have a permanent university post or who are on probation must identify an academic member of staff who has agreed to mentor them by providing support and advice. The mentor also needs to agree to meet with the student briefly on a weekly basis.

Students who did their undergraduate degree at Warwick cannot work with a supervisor with whom they have worked previously on a substantive research project, e.g. on a final year project or URSS project.

### Project Components for MAS CDT students:

- One project has to have a substantial “quantitative” component (e.g. mathematical modelling, calculation, extensive data analysis), the other a substantial experimental (i.e., laboratory based) component
- An individual student must choose projects offered by two different supervisors in two different research fields.

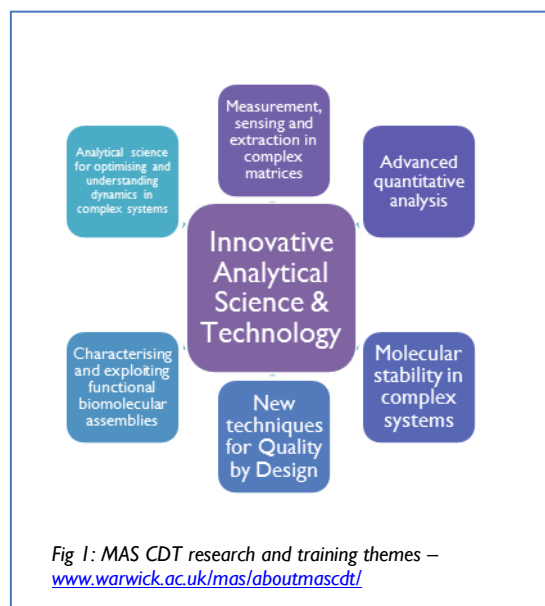


Fig 1: MAS CDT research and training themes – [www.warwick.ac.uk/mas/aboutmascdt/](http://www.warwick.ac.uk/mas/aboutmascdt/)

MAS Project 1 will be assessed by:

- A poster plus flash presentation during the annual conference 10<sup>th</sup> – 13<sup>th</sup> June 2019
- A 2,000 word technical report

MAS Project 2 will be assessed by

- A thesis in the format of a full research paper (6,000-8,000 words)
- An oral presentation

MAS Mark breakdown for each project:

Project execution, as assessed by the supervisor: 35%

Written work (as assessed by supervisor and one other independent marker): 40%

Poster + flash presentation: 25%

**Project Components for ASI MSc students:**

- A thesis (ca. 10,000 words): 70%
- An oral presentation and poster half way through the project and again at the end: 20%
- Practical performance: 10%

Students are advised that project deadlines are very strict and penalties will be imposed for late submission.

- Each student will be allocated a total project consumables budget of £450 in the first instance to cover the consumables for both mini-projects. In special circumstances, an application may be made to the MAS Management Committee for additional consumables support.
- **Supervisors whose project is chosen will be required to mark up to 2 other projects in addition to their own student's.**

**Deadline:** Submission Mini-project proposals **Monday 28<sup>th</sup> January 2019 12 noon**