### Industrial CASE Awards in Mathematics 2018/19 – Application Form

### Part A: General Information

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| Title | **[Project title]** |
| Industrial Partner | *[Name of organisation]*  *[Name(s) of company supervisors(s)]*  *[Address, email and telephone for each supervisor]* |
| University Partner | *[Name of university]*  *[Academic department in which the project will sit]*  *[Name(s) of academic supervisor(s)]*  *[Address, email and telephone for each supervisor]* |
| Company Details: | Please give the following information:  *[Markets in which the company is active]*  *[Number of employees (two significant figures)]*  *[Current annual turnover (one significant figure)]*  *[Locations of operations in the UK]*  Has the company previously collaborated with the university department?  YES/NO  Has the company previously sponsored CASE awards?  YES/NO |
| Proposed start date | The start date should be no later than 1st October 2020. We expect that many projects will wish to start in 2019. |
| Student | Do you already have a possible student in mind?  YES/NO |

### Part B: Research Proposal

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| Section 1: Context*[Describe the industrial context to which the project relates, and its potential importance in industrial terms. Outline also the scientific setting, and existing relevant expertise.]* |
| Section 2: Problem Statement*[Describe the industrial and scientific challenges that the project will address. Explain the scope for new scientific advances (to be developed further in Section 3 below).]* |
| Section 3: Scientific Proposal*[Describe the proposed work in scientific terms, including an explanation of the key mathematical lines that the project will develop. Be clear about the scientific advances that the project is intended to generate, and how they relate to any prior relevant work. Give sufficient detail to demonstrate that the project is sufficiently ambitious for a PhD, without being overly ambitious. This is the main section of the application on which scientific quality will be assessed.]* |
| Section 4: Outline Plan of Work*[Describe how the plan of work is likely to progress over the four-year duration of the project. Make clear what plans there are for student training, and also for engagement between the industrial and academic partners. Describe any dependencies that the project has on other current or planned projects, and what appropriate mitigation measures, if any, are in place to handle unexpected outcomes. Describe how the project will be managed, what interactions there might be with other research groups and what dissemination routes might be pursued.]* |
| Section 5: Benefits *[Describe how a successful project will provide benefits for (a) the industrial partner, (b) the university partner and (c) the student. Include opportunities for improving business operations and/or developing new products and services; opportunities to develop new lines of scientific inquiry; and opportunities to make further use of the experience and training gained.]* |
| Section 6: References to supporting literature *[Provide a list of references that are cited in the previous sections.]* |