



# SAMPLE: SHAPE Call Application Form

This is a **SAMPLE** application form for the SHAPE (SME HPC Adoption Programme in Europe) call. Any text highlighted in yellow (like this paragraph) is there for guidance and **should be deleted** from the final application.

At this application stage some SMEs may not be in a position to provide all of the information requested e.g. specific hardware details, quantity of machine time etc. The review process can accommodate this, but where specific details are not available please provide as much relevant information as possible to assist in the assessments.

<b>Project Title</b>	A short title for your proposed project
<b>Company Name</b>	
<b>Company Address</b>	
<b>Company Website</b>	
<b>Company Number</b>	Registration number for your organisation
<b>Number of Employees</b>	An approximate range for the number of employees at the SME eg. 75-100
<b>Contact Name</b>	The employee/owner from the SME responsible for the application
<b>Contact Position</b>	Their position in the organisation
<b>Contact Email</b>	Their contact email address
<b>Contact Phone</b>	Their contact telephone number (please include international code) e.g. +44 (0) 7782 123456

## Has the company worked with PRACE before?

If yes, please give details: project name, PRACE centre who they worked with, systems used etc

## What does the company do?

**(300 words)** Please describe your company and its core expertise.

## Project Abstract

**(150 words)** Briefly describe the project which you are proposing and its goals.

**Industrial relevance and potential business impact**

**(250 words)** A key criterion for approving a SHAPE application is that the project needs to have the potential to create business benefits for the proposing SME. Please provide some details of the business relevance and an estimate of the expected impact of the proposed work e.g. reduced time-to-market, job generation, increase in service quality etc.

**Proposed high-level Work Plan**

**(300 words)** In general terms, please describe the planned approach to the project.

Where possible, provide a breakdown of the tasks required to achieve the project goals along with an estimate of effort for each task in person-months (PM) from both the SME and the PRACE expert. Include the total expected effort at the end (SHAPE projects typically receive 3-6 months of effort from PRACE). Note SHAPE projects are expected to produce a report (8-10 pages) on the work performed at the conclusion of the project.

An example workplan:

<b>Start date:</b>		The earliest date that the work can start. (It may be the case that the project will actually start some time after this date)		
Task	Title	Description	SME effort (PM)	PRACE effort (PM)
1	Initial Profiling	The software will be handed over to the PRACE partner and installed on the target system, along with example test cases and benchmarks. These will be verified and profiled to identify bottlenecks	0.5	1.0
2	Optimisation strategy	Based on profiling data from previous task, propose strategies for code optimisation	0	0.5
...			...	...
6	Final report	Produce report on the outcomes of the work	0.25	0.25
<b>Total</b>			<b>3.0</b>	<b>5.0</b>

**Technical and business requirements**

Please identify technical and non-technical requirements for the project. ***Please note that it is understood that not every SME will be able to complete this section. However, where it is available, provide as much information as possible*** in the subsections below.

Technical requirements may include third-party software, preferred hardware architecture, non-standard security levels (like VPNs or data transfers methods not sftp-based), data storage estimates, remote visualization capabilities, etc... If there is a particular PRACE centre/HPC service that you wish to work with also please state this here.



Non-technical requests may include Non-Disclosure Agreements, data locality issues, etc...

Please motivate your requests.

### Compute Resource

<b>Existing architecture</b>	Description of the type of architecture your code currently uses
<b>Preferred architecture</b>	General description of type of architecture you expect to access within SHAPE, or directly name a PRACE machine
<b>Parallelisation strategy</b>	List the parallelisation technologies required or already used (e.g. MPI, OpenMP, accelerator ...)
<b>Storage (Gbyte)</b>	Estimate of storage requirements for the project (include generated data as well as test cases etc)
<b>Third party software</b>	Any third party software required for the project: include name and version, webpage or similar, and the license conditions (e.g. open source)
<b>Typical run</b>	Description of requirements of the typical expected runs of the code e.g. 12 hours on 128 cores, 1 hour on 1024 cores.
<b>Core hours</b>	Estimate of total core-hours required for the project
<b>Memory</b>	Description of requirements of the maximum expected memory usage of the code e.g. 1GB per core, 10GB per node
	...
<b>Other</b>	Any further relevant technical details e.g. I/O estimates

Add notes here motivating the above requests

### Non-technical resource

<b>Confidentiality</b>	E.g. any NDA requirements
<b>Other</b>	Any further relevant non-technical details

Add notes here motivating the above requests