



HPC Excellence: Crafting Strategies for Tomorrow's Challenges



Red Oak Consulting
Expert advice, exceptional delivery

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Crafting Your **HPC** Future

An effective High-Performance Computing (HPC) strategy ensures organisations can harness data, accelerate research, and stay competitive in a rapidly evolving landscape. It's crucial to align an organisation's capabilities, market realities, and clear choices. Failure to do so can result in an ineffective or wrong type of strategy, causing significant business impact.

Key risks of poor strategy:

- Poor execution even with a well-designed plan
- Lack of clear choices and focus
- Overlooking critical opportunities or emerging trends
- Wasting valuable resources—time, money, and effort
- Harming the organisation's reputation and stakeholder trust


Don't fall prey to common mistakes or time pressures.
Your HPC strategy will be the backbone of your digital platform.

Create the Optimum
HPC Value
with the Alignment of
Strategic Initiatives

Developing an effective HPC strategy requires specialised knowledge and expert skill. Our consultants are well-versed in the field of HPC and will leverage their knowledge while applying their expertise to your business.

“As the UK leader in offering HPC and Cloud Computing consultancy, it was acknowledged from the very beginning Red Oak Consulting would be a strategic partner to the university.”





The Need for Expert Guidance

Our specialised expertise encompasses the multifaceted nature of HPC, addressing detailed technical elements like hardware, software, Cloud functionalities, and concurrent computation. Our sophisticated decision-making can guide you towards optimal solutions that align with your company's immediate requirements, strategic positioning, and future aspirations.

Our consultants bring:

- Domain-specific knowledge across various industries.
- Understanding of unique HPC requirements in healthcare, research, government, higher education, and corporate sectors.
- Ability to balance investment between capital expenditure and operational costs.

An effective HPC strategy demands a blend of technical understanding, industry knowledge, and strategic thinking. This combination ensures long-term success, aligning with business goals while maximising the value of both financial and resource investments.

“Red Oak did a fantastic job of engaging with our senior researchers from across our academic Schools, eliciting valuable feedback and providing us with insights that will inform our strategic planning.”

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The Importance of an **HPC** Strategy

In today's data-driven world, a robust HPC strategy is not just an advantage—it's a necessity. Red Oak Consulting empowers organisations to harness the full potential of High-Performance Computing, driving innovation and a competitive edge.

A well-defined HPC strategy is crucial for:

Unlocking Data Value:
Processing and analysing extensive and complex datasets

Cloud Adoption:
Transforming the economics of research and development

National Importance:
Supporting the UK's ambition to remain a science and technology superpower

Competitive Advantage:
Exploring new discoveries and staying ahead of the competition

Our strategy experts will make sure the most important steps for success are completed and understood.

Key steps in our approach:



1. Assess Needs: Identify workloads, data volumes, and performance expectations.



2. Infrastructure Planning: Determine whether to invest in on-premises clusters, Cloud-based solutions, or a hybrid approach. Consider scalability, cost, and data gravity.



3. Resource Allocation: Allocate resources efficiently. Prioritise critical workloads and balance computational intensity with data intensity.



4. Security and Compliance: Address security concerns, data privacy, and compliance requirements. Implement robust security measures.



5. Collaboration: Foster collaboration between IT, researchers, and stakeholders. Involve experts to design and implement the strategy.

Mitigate risks and maximise potential.

Speak to an Expert

“Red Oak has shaped and influenced our strategic outlook and enabled us to be prepared for significant changes in how the Met Office delivers its HPC

 Met Office





Designing Your **HPC** Success

Engaging the right HPC expertise to develop an HPC strategy will mitigate risk and will significantly reduce potential pitfalls

The Expert Team at Red Oak Consulting guarantee to deliver:

- **Objectivity:** We provide an external perspective, free from biases and assumptions inherent within your organisation.
- **Specialised Knowledge:** Our experts bring deep expertise in areas such as industry trends, market analysis, and technology.
- **Time Efficiency:** Hiring our team saves time compared to learning new skills or hiring additional staff.
- **Cross-Industry Insights:** We work across various industries, bringing fresh ideas and best practices from different contexts.

Why Red Oak Consulting:

A specialist team who has successfully helped over 45 companies execute the right strategy for long-term investment and HPC success.

“The team at Red Oak was exceptional and went above and beyond our expectations. They brought real expertise and professionalism to the project which allowed us to deliver on time and under budget.”



Sync HPC with business goals to deliver faster processing times, cost savings and the agility to respond to changing market demands. A forward thinking approach that guarantees to position your business for a robust future.

Meet the team



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