British Journal of Multidisciplinary Studies
ISSN: 2978-8110
DOI: 10.32996/bjmss
Journal Homepage: www.al-kindipublisher.com/index.php/jbmss

BJMS
AL-KINDI CENTER FOR RESEARCH AND DEVELOPMENT

| RESEARCH ARTICLE

The Request for Information Framework (RFI) within the Service Sector: Systematizing Recruitment Vetting for Scientific-Research Specialists

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| ABSTRACT

The recruitment of highly specialized scientific-research experts presents a unique operational challenge for public, private, and third-sector organizations, particularly when traditional procurement frameworks lack a structured roadmap for assessing scientific competencies. This study operationalizes the Request for Information (RFI) framework within the service sector designed to systematize the recruitment vetting process for scientific-research specialists. Addressing critical structural talent mismatches, workforce variability, and strategic misalignment within complex delivery environments, this study details how a systematic literature review was transformed into an operational diagnostic proforma. This process utilized comprehensive cross-sectoral insights from aerospace, clinical infrastructure, artificial intelligence, and qualitative methodologies. The framework synthesized operational benchmarks and standards from prominent global organizations. The resulting methodology provides a robust, adaptable, and expansive roadmap for global organizations to assess market capability, mitigate non-numerical data risks, and secure corporate alignment before launching a tender. By shifting from situational selection to a systematic vetting model, the framework optimizes the precision of scientific-research specialist recruitment within complex service environments.

| KEYWORDS

Request for Information (RFI); Research Specialist Selection; Scientific Competency Assessment; Systematic Vetting Model; Organizational Strategy; Data Risk Mitigation; Strategic Alignment

| ARTICLE INFORMATION

ACCEPTED: 15 August 2026 **PUBLISHED:** 09 September 2026 **DOI:** 10.32996/bjmss.2026.4.3.1

Introductory Context

Organizations frequently rely on external international and national consulting companies to address high-level strategic, research, and transformation needs. However, standard procurement methods designed for generic service or logistical acquisitions can often be unsuccessful when applied to specialized scientific and research activities. Traditional Request for Proposal (RFP) processes are activated on predetermined assumptions of a well-defined market and pre-existing functional or operational roadmaps. However, the sourcing of particular research expertise, especially related to qualitative methodology and triangulation of research methods, is constrained and can be unpredictable given that it is outside the norm. Past institutional experiences demonstrate that applying a standard procurement process to specialized research expertise may lead to systemic blockages with accompanying unanticipated delays. These include, but are not limited to:

- *Expert Consultant Misallocation:* Vendors assigning generalist consultants randomly without matching to focused, project-specific research competence.
- *Communication Access Blockages:* Structural barriers preventing direct interaction between host organizations and active frontline scientific teams.
- *The 'Elite C-Suite Illusion':* Vendor proposals highlighting highly credentialed executive leadership while the deployed field teams lack specific expertise or research experience required for a targeted project.
- *Discontinuity of Research Expertise:* Frequent turnover or reassignment of specialized vendor team members, accompanying lack of individual accountability, and a stark deficiency in local cultural or contextual business intelligence.

To systemically mitigate these risks, institutions require an organized, frontline engagement interface to assess market capability and verify qualitative capacity before initiating a formal tendering process that is binding. This study focuses on establishing a comprehensive, evidence-based framework for designing a specialized 'Request for Information' (RFI) proforma that addresses a fundamental absence when standard procurement blueprints for expertise in research specialists sourcing do not exist.

Methodology: Designing the RFI Blueprint Scope and Screening Protocol

Given that a standard roadmap for research-focused RFIs is often absent or infrequently used versus the regular established operational approaches, a cross-sectoral, atypical screening protocol was utilized to construct the processes that included a proforma. An initial search strategy yielded 67 publications, institutional websites, and governmental agency documents spanning two decades as shown in figure 1 below.

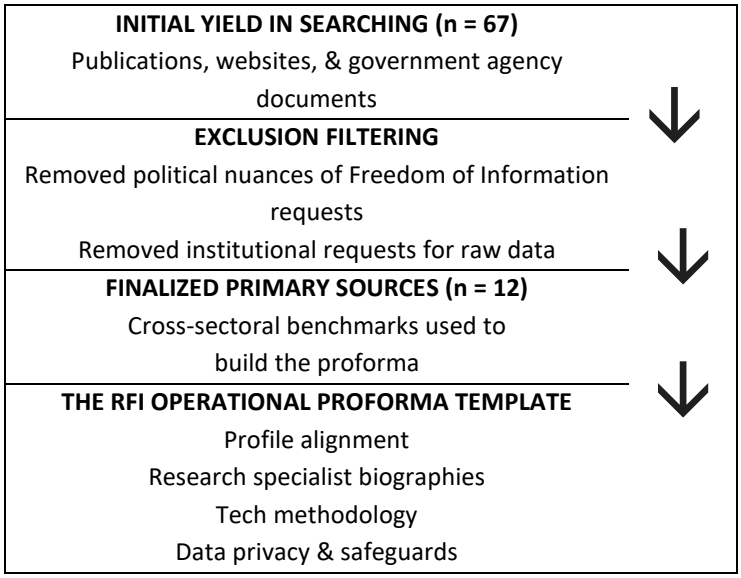

Figure 1: The steps in the development of the screening protocol

Aimed at isolating solely operational criteria in procurement methods, a discerning exclusion protocol was designed. Political nuances such as the statutory Freedom of Information requests and standardized administration requests for raw data were systematically excluded. This filtering out process reduced the operational baseline to 12 primary sources.

Cross-Sectoral Data Synthesis and Organizations Reviewed

The core justification for synthesizing highly diverse sectors that ranged from aerospace to biomedical repositories rested on the common operational requirement that each specialized field functions under varying technical unpredictability, strict data integrity challenges, and the obligation for authenticating specialized expert competencies prior to implementation. The synthesis extracted structural frameworks across five operational pillars as follows:

a) *Artificial Intelligence and Technical Action Plans:* RFI structured frameworks evaluating rapidly evolving technical competencies and technological roadmap maturity were derived from the Networking and Information Technology Research and Development National Coordination Office (D'Souza, 2025), the Center for a New American Security related to strategic positioning responses (Fist et al., 2023), and information integrity models for safeguarding systemic development (Sift, 2022).

b) *Aerospace and Technical Support Standards:* Rigid functional guidelines and technical support request architectures were adapted from engineering asset management standards at National Aeronautics and Space Administration (NASA) (Bellamy, 2018).
c) *Clinical Research Infrastructure and Biomedical Repositories:* Parameters governing cross-institutional data including collection, continuity, and repository sustainability were drawn from the National Institutes of Health (2015), the White House Office of Science and Technology Policy (2022), and the Center for International Blood and Marrow Transplant Research (2025).
d) *Specialized Field Studies and Infrastructure:* Guidelines for specialized recruitment, participant debriefing, and complex field data collection were modeled using guidelines of the National Highway Traffic Safety Administration (Friedman, 2014), regional physical infrastructure templates used in South Africa (Sci-Bono Discovery Centre, 2014), and baseline request architectures (Rodgers, 2021).
e) *Qualitative Information Criteria:* Methodological standards for evaluating qualitative rigor and administrative data requests were integrated from peer-reviewed social science literature pertaining to international academic platforms (Walby & Luscombe, 2017).

The Comprehensive RFI Framework Structure

The synthesized, comprehensive RFI proforma shifts the generic procurement focus from macro-level corporate reputation to micro-level, verifiable, frontline research capabilities. To ensure functional alignment, the framework is structured into two complementary sections for comprehensive universal adoption by global institutions: *Section 1* is focused on the host institution's operational ecosystem that enables *Section 2* which mandates precise, targeted evidence from responding institutions.

Section 1: The Research Project Narrative Synopsis

Targeted for outreach to vendors, the host organization provides a specific synopsis of the research context and exploratory needs. This removes vendor responses that are pre-packaged submissions since the responses require anchoring the inquiry in alignment to specific scientific research contexts. The synopsis articulates pertinent information that includes:

- *The Core Analytical Focus:* The precise research or scientific phenomenon under investigation from the perspectives of socio-administrative or organizational dimensions.
- *Clear Research Project Objectives:* Explicit operational targets such as mapping leadership transitions or revisions to organizational architecture, evaluation of strategic governance transformation, etc.
- *Methodological Rigor and Complexity:* A clear descriptive statement of expected research designs and corresponding expertise that is required such as qualitative document analysis, executive focus groups, embedded case studies, methodological or data triangulation strategies, etc.

Section 2: Research-Scientific Capability and Scope

This section necessitates direct responses to the detailed descriptive context provided in Section 1. The entity responding has to provide detailed proof of research capability and scientific capacity, systematically counteracting the consultancy vendor marketing of senior expert profiles while junior, less experienced team members execute the assignment. The comprehensive RFI proforma is outlined in table 1 that follows.

Table 1: Descriptive RFI details of sections and required responses

Section focus	Details expected in response
1. Institutional Profile & Philosophical Alignment	• Core expertise in high-level institutional research • Regional, cultural, and localized governance distinctions • Philosophical approach to studying elite/sensitive stakeholders
2. Proposed Research Expertise & Specialist Team Members	• Lead Research Director: traceable experience in overseeing complex research assignments • Specialized Researchers such as document analysts: experience in using research software such as NVivo, AltasTi, MAXQDA, SPSS, Python, SAS, etc • Senior Research Facilitators: experience managing power differentials at varying leadership levels • Regional/ Cultural experts: capable of navigating the local context as applicable
3. Technical Approach & Project Management	• Frontline methodological explanation on core research tracks • Milestone mapping by ensuring phase objectives are realized • Facilitation of collaborative aspects & risk mitigation
4. Data Privacy, Cybersecurity & Value	• Administrative, technical, and physical safeguards

Addition	• Secure data handling procedures, vulnerability management, and related compliance • Research dissemination strategies that include knowledge transfer models to local team
5. Other directly-related research – scientific capability/ capacity that is relevant to the proposed assignment	• Open factors provided with justification • Excludes financial or budgetary aspects at this stage

Discussion: Overcoming the Predictable Procurement Approaches

The designing of atypical non-standard RFIs using this comprehensive synthesized methodology tackles three key structural vulnerabilities inherent in traditional institutional procurement approaches:

1. Neutralizing the 'Elite C-Suite Illusion'

The primary innovation and strength of this architectural proforma is its mandatory, role-specific research-scientific validation protocol. By requiring vendors to identify specific individual scientific specialists as itemized in table 1 above and to outline their related experience with analytical software tools and protocols, the evaluation shifts from the entity's brand or marketing reputation to the specific scientific and technical competence of the team members that will be engaged in delivery at the host institution.

2. Safeguarding Sensitive Data and Elite Stakeholder Access

Specialized institutional research frequently involves sensitive strategy documents, executive communications, board minutes, and internal audit vulnerability reports. This comprehensive framework includes committed data privacy and cybersecurity assessment directly into the pre-tendering phase. Vendors are obliged to demonstrate their administrative, technical, and physical safeguards before being shortlisted for the formal RFP that is the next invited step.

3. Strategic Integration into the Procurement Lifecycle

The RFI is emphasized to be voluntary, exploratory, and non-reimbursable without any business commitment except to provide information. Consequently, it functions as a risk-free engagement that allows both parties to explore market capabilities without obligation. Host organizations retain full ownership of the insights and structural models submitted by respondents. This perspective directly informs and sharpens the subsequent formal RFP that would follow which results in reduced ambiguity and prevents costly scope adjustments during later phases during scientific engagement.

Rubric Design for Scoring RFI Submissions

Given that it is expected that several submissions will be received in the RFI responsive process, a rubric can be designed in alignment with the content of the RFI information as outlined in table 1 of section 2 above. The scoring system can be adapted to the qualitative narrative proposals by using a table of actionable data. To achieve this, the design can blend rigorous compliance into a combination of metrics for assessing descriptions. A feasible four-point, compliance-driven scale that credits responses in a progressive numerical hierarchy (0 to 3) to clearly delineate adherence from partial efforts, richness of detail, or total omission as follows:

- *3 – Fully Meets / Excellent (Acceptable):* The criteria are fully realized with complete, accurate, and consistent descriptions. The submission is coherent, comprehensive, and responds to all requirements including explicit justification with supporting evidence as applicable, and demonstrates total alignment with expectations without requiring further documentation.
- *2 – Partially Meets / Good (Requires Clarification):* The capability and capacity are present and sufficiently described, however, the proposal appears to depend on templates that are generic, or lack specific detailed explanations. Key scientific and technical details or workflows are vague, indicating that the vendor possibly has the capability but has come short in documenting the capacity adequately.
- *1 – Faulty / Poor (Requires Revision):* The response in essence contains obvious gaps, uses contradictory language, and/or has missing scientific components or technical aspects. The response provided is flawed, and/or has compliance risks that emerge that will require substantial clarification and/or further documentation for clarification before further consideration.
- *0 – Does Not Meet / Unacceptable (Deficient):* The response has completely failed to respond to the RFI and is inadequate or inappropriate for the scope of the scientific project. The submission response fails to address the specified research criteria, lacks critical commitments, and/or demonstrates a vital inability to meet the scientific requirement.

Scoring of each subsection, that is finally converted into a percentage, would facilitate adjudication on all submissions received.

Conclusion

In contextual situations when institutions confront rare, atypical, non-standard research requirements, depending on traditional approaches reveals a misalignment and possibly critical operational and quality risks. By deploying a specialized, evidence-based RFI proforma constructed on cross-sectoral operational insights from institutions such as NASA (Bellamy, 2018) and the NIH (2015), institutions can meticulously assess relatable capability and capacity, validate authentic expertise within research scientific specialist competence, and protect data and scientific project integrity. This comprehensive RFI framework provides global entities with a replicable, transparent methods to transform an ambiguous sourcing activity into a consistent and predictable, dependable strategic advantage.

Disclaimer:

The views expressed are entirely those of the coauthors, and therefore are not necessarily perspectives of the institutions associated with the coauthors. It is declared that there are no conflicts of interest. Furthermore, the coauthors are not responsible for any errors or omissions, and/or for the results obtained from the sources used to generate this review publication. The coauthors therefore bear no liability to any person for any loss or damage arising out of the inaccurate use of the information provided in the review.

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