**New Application: Clinical Informatics**

**Review Committees for: Anesthesiology, Diagnostic Radiology,
Emergency Medicine, Family Medicine, Internal Medicine,
Medical Genetics and Genomics, Pathology, Pediatrics or Preventive Medicine**

**ACGME**

Applications will be accepted from programs whose Sponsoring Institution also sponsors an ACGME-accredited program in at least one of the following specialties: anesthesiology, diagnostic radiology, emergency medicine, family medicine, internal medicine, medical genetics and genomics, pathology, pediatrics, or preventive medicine.

Applications for accreditation of clinical informatics fellowship programs will be accepted by the Review Committees for Anesthesiology, Family Medicine, Internal Medicine, Pathology, or Pediatrics. Applications for accreditation are available on the Program Requirements and FAQs and Applications page of each specialty’s section of the website.

If the program is not affiliated with an ACGME-accredited program in anesthesiology, family medicine, internal medicine, pathology, or pediatrics, the program may apply as a residency-independent fellowship (see the [ACGME Manual of Policies and Procedures](http://www.acgme.org/Portals/0/PDFs/ab_ACGMEPoliciesProcedures.pdf) (Subject 16.b.(2).(b) In this circumstance, please e-mail ads@acgme.org for instructions prior to initiating the application.

New program applications must use the online application process within the Accreditation Data System (ADS). For further information, review the “[Application Instructions](http://www.acgme.org/Portals/0/Documents/Common%20Resources/ApplicationInstructions.pdf?ver=2017-06-06-130246-257).”

This document contains the “Specialty-specific Application Questions.” After competing this document, convert it to PDF and upload it as the “Attachment: Specialty-specific Application Questions” during Step 12 of the online application process within ADS.

**Oversight**

**Participating Sites**

1. Is there an institutional policy governing the educational resources committed to the fellowship that ensures collaboration among multiple disciplines and professions involved in educating fellows? [PR I.B.1.b)] [ ]  YES [ ]  NO

2. Describe how the program will include participation of an academic informatics department, such as a department of clinical or biomedical informatics or its equivalent. [PR I.B.1.d)] (Limit response to 400 words)

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**Resources**

1. Facilities

1. Indicate whether the following resources are available for the education of fellows at each participating site. [PR I.D.1.a)]

|  | **Site #1** | **Site #2** | **Site #3** | **Site #4** |
| --- | --- | --- | --- | --- |
| Access to computers | Choose an item. | Choose an item. | Choose an item. | Choose an item. |
| Internet access | Choose an item. | Choose an item. | Choose an item. | Choose an item. |
| Conference space | Choose an item. | Choose an item. | Choose an item. | Choose an item. |
| Meeting space | Choose an item. | Choose an item. | Choose an item. | Choose an item. |
| Visual and other educational aids | Choose an item. | Choose an item. | Choose an item. | Choose an item. |
| Work/study space | Choose an item. | Choose an item. | Choose an item. | Choose an item. |

b) Indicate whether the primary clinical site operates a clinical information system that is able to:

1. Collect, store, retrieve, and manage health and wellness data and information?
[PR I.D.1.b).(1)] [ ]  YES [ ]  NO

Describe the system that collects, stores, retrieves, and manages health and wellness data and information. (Limit response to 250 words)

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1. Provide clinical decision support? [PR I.D.1.b).(2)] [ ]  YES [ ]  NO

Describe the system that provides clinical decision support. (Limit response to 250 words)

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1. Support ambulatory, inpatient, and remote care settings, as needed? [PR I.D.1.b).(3)]
 [ ]  YES [ ]  NO

Describe the system that supports ambulatory, inpatient, and remote care settings. (Limit response to 250 words)

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Explain any “NO” responses above.

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**Personnel**

**Program Director**

1. Indicate the amount of support that the program director is provided for administration of the program. [PR II.A.2.]

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**Faculty**

1. Provide a list of the program’s core faculty members and describe what credentials each has in Clinical Informatics, as well as experience in teaching clinical informatics, conducting informatics research and teaching other curriculum relevant to their role as faculty in the program. Insert rows as needed. [PR II.B.4.

| **Name** | **Certification (ABMS/Other)** | **Additional Qualifications** |
| --- | --- | --- |
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**Program Coordinator**

1. Will the program have a program coordinator to provide adequate administrative support to the program? [PR II.C.2.] [ ]  YES [ ]  NO

**Educational Program**

**ACGME Competencies**

**Patient Care and Procedural Skills**

1. Indicate the settings and activities in which fellows will demonstrate competence in the following areas of patient care. Also, indicate the method(s) that will be used to assess competence.

| **Competency Area** | **Settings/Activities** | **Assessment Method(s)** |
| --- | --- | --- |
| Leveraging information and communication technology to: |  |  |
| Incorporate informatics principles across the dimensions of health care, including health promotion, disease prevention, diagnosis, and treatment of individuals and their families across the lifespan[PR IV.B.1.b).(1).(a).(i)] | Click here to enter text. | Click here to enter text. |
| Use informatics tools to improve assessment, interdisciplinary care planning, management, coordination, and follow-up of patients[PR IV.B.1.b).(1).(a).(ii)] | Click here to enter text. | Click here to enter text. |
| Use informatics tools, such as electronic health records or personal health records, to facilitate the coordination and documentation of key events in patient care, such as family communication, consultation around goals of care, immunizations, advance directive completion, and involvement of multiple team members as appropriate[PR IV.B.1.b).(1).(a).(iii)] | Click here to enter text. | Click here to enter text. |
| Use informatics tools to promote confidentiality and security of patient data[PR IV.B.1.b).(1).(a).(iv)] | Click here to enter text. | Click here to enter text. |
| Fundamental programming, data base design, and user interface design[PR IV.B.1.b).(1).(b)] | Click here to enter text. | Click here to enter text. |
| Project management and software engineering related to the development and management of IT projects that are pertinent to patient care[PR IV.B.1.b).(1).(c)] | Click here to enter text. | Click here to enter text. |
| Identification of changes needed in organizational processes and clinician practices to optimize health system operational effectiveness [PR IV.B.1.b).(1).(d)] | Click here to enter text. | Click here to enter text. |
| Analysis of patient care workflow and processes to identify information system features that will support improved quality, efficiency, effectiveness, and safety of clinical services[PR IV.B.1.b).(1).(e)] | Click here to enter text. | Click here to enter text. |
| Assessment of user needs for a clinical information or telecommunication system or application [PR IV.B.1.b).(1).(f)] | Click here to enter text. | Click here to enter text. |
| Combine an understanding of informatics concepts, methods, and health IT to develop, implement, and refine clinical decision support systems[PR IV.B.1.b).(1).(g)] | Click here to enter text. | Click here to enter text. |
| Evaluate the impact of information system implementation and use on patient care and users[PR IV.B.1.b).(1).(h)] | Click here to enter text. | Click here to enter text. |

1. Briefly describe how fellows will be provided with opportunities to act in a consultative role to other physicians and health professionals. [PR IV.B.1.b).(1).(a).(iii)] (Limit response to 400 words)

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**Medical Knowledge**

1. Indicate the activities (lectures, conferences, journal clubs, clinical teaching rounds, etc.) in which fellows will demonstrate competence in their knowledge in each of the following areas. Also, indicate the method(s) that will be used to assess knowledge.

| **Area of Knowledge** | **Settings/Activities** | **Assessment Method(s)** |
| --- | --- | --- |
| Fundamental informatics vocabulary, concepts, models, and theories[PR IV.B.1.c).(1).(a)] | Click here to enter text. | Click here to enter text. |
| The health care environment, to include how business processes and financial considerations, including resourcing information technology, influence health care delivery and the flow of data among the major domains of the health system [PR IV.B.1.c).(1).(b)] | Click here to enter text. | Click here to enter text. |
| How information systems and processes enhance or compromise the decision making and actions of health care team members [PR IV.B.1.c).(1).(c)] | Click here to enter text. | Click here to enter text. |
| Process improvement or change management for health care processes [PR IV.B.1.c).(1).(d)] | Click here to enter text. | Click here to enter text. |
| Information system management skills, including project management, the life cycle of information systems, the constantly evolving capabilities of IT and health care, and the technical and non-technical issues surrounding system implementation[PR IV.B.1.c).(1).(e)] | Click here to enter text. | Click here to enter text. |
| The impact of clinical information systems on users and patients[PR IV.B.1.c).(1).(f)] | Click here to enter text. | Click here to enter text. |
| Strategies to support clinician users and promote clinician adoption of systems[PR IV.B.1.c).(1).(g)] | Click here to enter text. | Click here to enter text. |
| Clinical decision design, support, use, and implementation[PR IV.B.1.c).(1).(h)] | Click here to enter text. | Click here to enter text. |
| Evaluation of information systems to provide feedback for system improvement[PR IV.B.1.c).(1).(i)] | Click here to enter text. | Click here to enter text. |
| Leadership in organizational change, fostering collaboration, communicating effectively, and managing large-scale projects related to clinical information systems [PR IV.B.1.c).(1).(j)] | Click here to enter text. | Click here to enter text. |
| Risk management and mitigation related to patient safety and privacy [PR IV.B.1.c).(1).(k)] | Click here to enter text. | Click here to enter text. |

**Practice-based Learning and Improvement**

1. Briefly describe one planned learning activity in which fellows engage to identify strengths, deficiencies, and limits in their knowledge and expertise (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities to achieve self-identified goals (life-long learning). [PR IV.B.1.d)] (Limit response to 400 words)

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1. Briefly describe one example of a learning activity in which fellows engage to develop the skills needed to use information technology to locate, appraise, and assimilate evidence from scientific studies and apply it to their patients' health problems. [PR IV.B.1.d)] (Limit response to 400 words)

The description should include:

* Locating information
* Using information technology
* Appraising information
* Assimilating evidence information (from scientific studies)
* Applying information to patient care

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**Interpersonal and Communication Skills**

1. Briefly describe one learning activity in which fellows develop competence in communicating effectively with patients and families across a broad range of socioeconomic and cultural backgrounds, and with physicians, other health professionals, and health-related agencies. [IV.B.1.e)] (Limit response to 400 words)

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**Systems-based Practice**

1. Briefly describe the learning activity(ies) through which residents demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. [PR IV.B.1.f)] (Limit response to 400 words)

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**Curriculum Organization and Fellow Experiences**

1. Provide an explanation of how fellows will participle in the planning and conducting of conferences. [PR IV.C.4.] (Limit response to 400 words)

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2. Will fellows have clearly defined, written descriptions of responsibilities and a reporting structure for all educational assignments? [PR IV.C.5.] [ ]  YES [ ]  NO

1. Briefly describe how the program will ensure that fellows have exposure to different types of clinical and health information systems. [PR IV.C.6.] (Limit response to 400 words)

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4. Indicate whether educational assignments with the following focus (or foci) will be available.
[PR IV.C.7.a)-m)]:

a) Algorithm development [ ]  YES [ ]  NO

b) Bioinformatics/computational biology [ ]  YES [ ]  NO

c) Clinical translational research [ ]  YES [ ]  NO

d) Data organization/user interface [ ]  YES [ ]  NO

e) Diagnostics [ ]  YES [ ]  NO

f) Health information technology user interface design [ ]  YES [ ]  NO

g) Imaging informatics and radiology information systems [ ]  YES [ ]  NO

h) Information technology business strategy and management [ ]  YES [ ]  NO

i) Laboratory information systems/pathology informatics [ ]  YES [ ]  NO

j) Public health informatics [ ]  YES [ ]  NO

k) Regulatory informatics [ ]  YES [ ]  NO

l) Remote systems/telemedicine [ ]  YES [ ]  NO

m) Specialty-specific focus [ ]  YES [ ]  NO

5. Identify at least three settings in which fellows will be educated for their assignments. [PR IV.C.8.]

1. Inpatient [ ]  YES [ ]  NO
2. Outpatient [ ]  YES [ ]  NO
3. Remote applications [ ]  YES [ ]  NO
4. Government agencies [ ]  YES [ ]  NO
5. Industry [ ]  YES [ ]  NO
6. Health record banking [ ]  YES [ ]  NO
7. Consulting firm [ ]  YES [ ]  NO
8. Other (please specify below) [ ]  YES [ ]  NO

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6. Describe the above settings in detail that the program will use to provide its fellows with the diverse experience needed to apply their knowledge and develop their skills in informatics (e.g., fellow activities in that setting, specific resources at that site). If one or more of these settings are not clinical, please explain the rationale for the choice of setting. [PR IV.C.8.] (Limit response to 400 words)

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7. Briefly describe how each fellow will have an individualized learning plan that allows him or her to demonstrate proficiency in all required competencies within the specified length of the educational program, and that is specific to his or her primary specialty or incorporates the area of focus in his or her educational assignment(s). [PR IV.C.9.] (Limit response to 400 words)

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8. Briefly describe the long-term assignments in which fellows will integrate their knowledge and prior experience in a clinical setting, including the participating site where long-term assignments will occur and a description of the real-world clinical informatics challenges at each site. [PR IV.C.10.] (Limit response to 400 words)

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1. Briefly describe how the program will ensure that long-term assignments will allow fellows to actively analyze problems and plan and implement recommendations from a team. [PR IV.C.10.a).(1)] (Limit response to 400 words)

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1. Briefly describe the composition of the interdisciplinary team in which fellows will be able to participate. [PR IV.C.10.a).(2)] (Limit response to 400 words)

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1. Indicate whether fellows will be provided with the opportunity to maintain their primary specialty certification.
[PR IV.C.11.] [ ]  YES [ ]  NO

If “NO,” explain.

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**Scholarship**

1. Will each fellow complete at least one of the following scholarly activities: peer-reviewed funding and research, publication of original research or review articles, or presentations at local regional, or national professional and scientific society meetings? [PR IV.D.3.a).(1)-(3)] [ ]  YES [ ]  NO
2. Briefly describe and list research opportunities and ongoing scholarly projects in which fellows could be involved. [PR IV.D.3.a)] (Limit response to 400 words)

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