

## The EIC Joint Institute for Computing and Software (EIC-JI-CS)

BNL & JLAB, as EIC host Labs, are creating a joint structure, the EIC Joint Institute for Computing and Software (EIC-JI-CS), incorporating parts of BNL and JLAB facilities to support the EIC and computing and software needs and activities. EIC-JI-CS will leverage complementary expertise at the two Labs and provide needed visibility to the respective Lab management chains and stakeholders. The advantages of such a structure also include increased reliability & availability of resources for the EIC user community.

### Scope of the EIC Computing and Software Institute

This institute will provide for EIC computing and software matters:

- 1) A single entity to interface with the EIC project and the detector collaboration(s),
- 2) A coordinating body for interacting with international partners providing computing resources as in-kind contributions. This includes assessing resources, managing the MOUs with the sites delivering resources (including service levels), and facilitating and assessing the delivery against the MOUs,
- 3) Execution of Host Lab responsibilities as detailed below.

### Organization & Governance

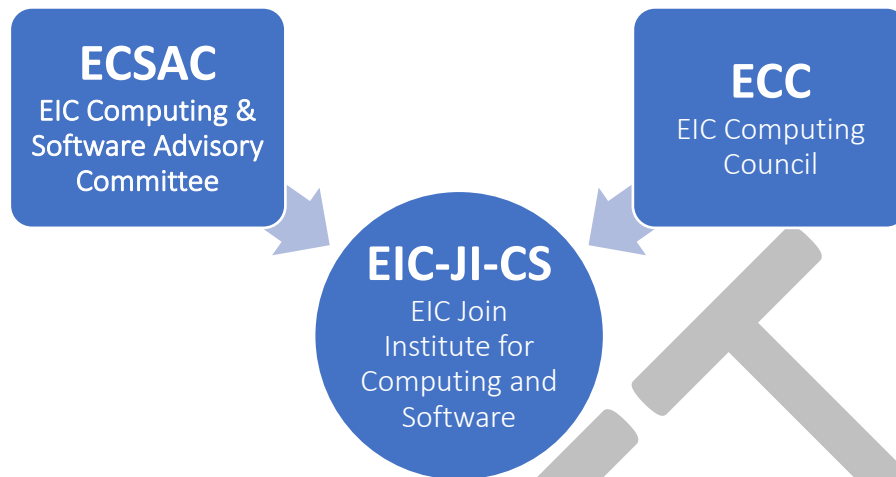
The institute aims at providing efficient support to the EIC while acknowledging the differences in the organization at the two Labs. The proposed governance model ensures that the EIC experiment(s) are well supported in matters of computing and software, the institutes' performance is monitored, and reporting is clearly defined.

#### The institute management

- *Composition*: the management will comprise two co-Directors; each is nominated by one Lab.
- *Reporting*: the institute's management will report jointly to the two Host Lab management.
- *Duties and accountability*:
  - The management will be responsible for organizing the institute to deliver on the responsibilities defined above.
  - The management will maintain a multi-year operation plan for the Host Labs, which will provide matrixed staff members to support the activities.
  - The management will provide a yearly report to the Host Lab's management.

The proposed governance structure is composed of two central bodies and is designed to facilitate communication, coordination, escalation of issues, and conflict resolution.

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#### 44 The EIC Computing and Software Advisory Committee

45 The EIC Computing and Software Advisory Committee (ECSAC) is chartered to propose advice,  
46 guidance, and counsel on the strategy and objectives of the Institute. The ECSAC reports to the  
47 EIC-JI-CS management. The ECSAC chair and committee members include external managers and  
48 experts in the field appointed by the Institute management in consultation with the Host Lab's  
49 management. It will initially meet at least twice a year or as requested by the Institute  
50 management. The ECSAC serves as the Institute management's external advisory committee; it  
51 will submit a report to the Institute management after each meeting.

52 The proposed responsibilities are:

- 53 • Review the strategy and objectives of the Institute to support EIC Computing and  
54 Software,
- 55 • Evaluate the adequacy of the infrastructure and resources to meet the requirements of  
56 the collaboration(s),
- 57 • Evaluate proposed technical solutions and their implementation,
- 58 • Identify opportunities to increase effectiveness and efficiency,
- 59 • Provide recommendations on technical and organizational matters.

60 If conflicting requirements affect the operation, planning, or budget, the ECSAC will be asked to  
61 provide recommendations to the Institute management, who will escalate them to the EIC  
62 Computing Council.

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#### 64 The EIC Computing Council

65 The EIC Computing Council (ECC) is chaired in alternation by the Deputy Directors for Science and  
66 Technology of BNL and the Deputy Director for Science of JLAB. It comprises the ALDs/ADs and  
67 deputies involved in the EIC science program and the Institute management.

- 68 • *Responsibility:* Review the EIC-JI-CS strategic direction and support leadership in  
69 managing effective interfaces of the EIC-JI-CS to the EIC project and researchers.

- 70       • *Authority*: Approve the EIC-JI-CS strategic direction, leadership changes, annual budgets,  
71       resource allocations, and performance milestones.

72 Additional proposed responsibilities are:

- 73       • Oversee the development and implementation of EIC Computing and Software and  
74       review future computing needs,  
75       • Oversee synergies between the laboratories in EIC scientific computing area and provide  
76       institutional strategic direction.  
77       • Resolve high-level issues between different stakeholders.

78 The ECC will initially meet at least twice a year or as requested by the management of the  
79 Institute and hear reports from the Institute management.

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## 81 Responsibilities

### 82 [The Host Lab's responsibilities](#)

83 The primary technical responsibilities of Host Labs include and are not limited to the following:

- 84       • Oversight of the detector collaborations' software and computing designs and execution,  
85       • Provisioning and operating standard infrastructure solutions consistent with currently  
86       supported Lab infrastructure and with community best practices,  
87       • Support for the EIC distributed computing international organization,  
88       • Interface for local resources and policies at the respective Labs,  
89       • On-going computing operations in support of the accelerator and detectors design and  
90       construction,  
91       • Operational Support Functions for  
92           ○ experimental data curation,  
93           ○ first-pass processing,  
94           ○ data analysis,  
95           ○ support of collaboration(s) and users,  
96           ○ accelerator and detector simulations.

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### 98 [Collaboration\(s\) responsibilities](#)

99 The EIC collaboration's responsibilities include and are not limited to the following:

- 100       • Articulating and documenting a cost-effective computing model tailored to the  
101       experiment's needs, with the concurrence of the host Labs,  
102       • Developing and maintaining multi-year resource plans,  
103       • Providing a Point of Contact to interact with the EIC-JI-CS,  
104       • Identifying Computing and Software coordinators with input from the EIC-JI-CS,  
105       • Developments of Software Algorithms,  
106       • Production operations.

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